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**Government of West Bengal**

**State Statistical Bureau**

# **Conch-Shell Industry**

## **A Type-Study**



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1963

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## PREFACE

The present report, the ninth one of the type-study series, deals with traditional (conch) shell-ware manufacture of the districts of Bankura, Nadia, Murshidabad and Bongaon town of 24-Parganas.

2. The handicraft accounts for the principal source of earnings for no fewer than 65 per cent. of conch-shell artisans; with others it is but a subsidiary occupation. Working cost is, however, none too low and the income margin, which nowhere exceeds Rs. 89 per month, can be hardly said to be quite satisfactory.

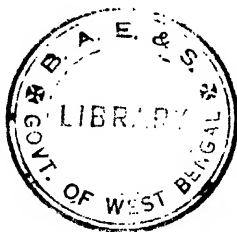
3. With Government of India ban on import of Ceylon-shells, South Indian-shells from Tuticorin and Ramnad coasts monopolise the field and in spite of arrangements by Government of West Bengal for procurement and supply of a portion of their requirements, South Indian merchants appear to have effectively created a seller's market: supply is very irregular and prices go up from year to year.

4. Shell-bangles and ringlets, once so popular because of their finish and design and still in demand in orthodox quarters for their sentimental value, now face serious competition from cheaper plastic wares and the future of the industry obviously lies in reduction of costs, introduction of better design and, if possible, in a partial change-over to manufacture of other articles like buttons, toys, etc.

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# CONCH-SHELL INDUSTRY—A TYPE-STUDY

## Present Economic Condition and Trends

**1.1. Introduction:** The present report, the ninth one of the type-study series, deals with conch-shell—wares-craft in several localities of four districts of West Bengal.

**2.1. Coverage:** The coverage has been as follows:—

Name of district.	Localities.	Number of establishments listed.
1. Bankura	.. Rural areas of Sadar and Bishnupur Subdivisions, Towns of Bankura and Bishnupur.	303
2. 24-Parganas	.. Town of Bongaon .. ..	20
3. Nadia ..	.. Rural areas of Sadar and Ranaghat Subdivisions, Towns of Nabadwip and Ranaghat.	236
4. Murshidabad	.. Rural areas of Sadar, Kandi, Jangipur and Lalbagh Subdivisions, Town of Berhampore.	884

**2.2. Scope of investigation:** The entire economy of the establishments engaged in this handicraft, their capital structure, their assets and liabilities, their marketing and other problems have all been studied in detail and the results are presented in nine sets of tables.

**3.1. Number of units surveyed:** Where the numbers are not too many, a complete census was taken, while in local areas with concentration exceeding 150 units, a sample was selected for survey in schedule (vide Appendix A).

**3.2.** The distribution of samples and the extent of response received in different localities have been as follows:—

Name of locality.	Number of samples.	Number of units responding.
1. Rural areas of Sadar and Bishnupur Subdivisions, Towns of Bankura and Bishnupur.	303	264
2. Town of Bongaon .. ..	20	20
3. Rural areas of Sadar and Ranaghat Subdivisions, Towns of Nabadwip and Ranaghat.	170	143
4. Rural areas of Sadar, Kandi, Jangipur and Lalbagh Subdivisions, Town of Berhampore.	336	312

Other details of sampling frame, etc., will be found in Appendix B. It will be seen that the present report is based on 739 schedules received.

**3.3. Type of units:** The establishments, as usual, conform to two broad categories—

- independent units which mostly purchase raw materials and sell finished goods independently, and
- auxiliary units or *dadandari* units, which receive raw materials from brokers and supply finished products to them against what may be called wages.

Of the 739 units actually contacted, 417 units (200 in Murshidabad, 119 in Bankura, 81 in Nadia and 17 in Bongaon) conform to the first type, while 322 units (62 in Nadia, 112 in Murshidabad, 3 in Bongaon and 145 in Bankura) would come under the second category.

**4.1. Manufacturing process and items of manufacture:** Working with simple tools (details vide Appendix C) and using either whole shells (which they cut up) or cut pieces, the craftsmen in their cottages prepare bangles, rings, ringlets, etc., of various shapes and designs. The artisans also clean, polish and shape shells and prepare blowing shell-trumpets.

Shell-dust or shell-powder said to be used for Ayurvedic medicines as also taken as lime after being burnt with betel-leaves constitutes the only bye-product of the industry. One hundred conch-shells yield, it is estimated, some 5 seers of shell-dust worth about Rs. 4 per seer, while one thousand conch-shells could yield about half a maund of lime.

**5.1. Total output and value of products:** Finished and semi-finished bangles constitute the bulk of manufacture; shell-trumpets and other miscellaneous products occupy relatively unimportant position in the list of manufactured articles. Tables 5.1 and 5.2 give the details of product and bye-product with their value and average quantity manufactured per establishment. The position can be summarised as follows:—

District.	Type of unit.	Quantity produced per establishment last year.		Total value of products per establishment last year.		
		Finished bangles (pair).	Semi-finished bangles (pair).	Finished bangles.	Semi-finished bangles.	Other products.
					Rs.	Rs.
1. Bankura	Independent			3,672		
	Auxiliary					
2. Bongaon of 24-Parganas.	Independent	.. 2,774	..	4,586		
	Auxiliary	.. 5,367	..	*		
3. Nadia	Independent	.. 2,008	62	2,969	45	
	Auxiliary	.. 1,062	1,417	*		
4. Murshidabad	Independent	.. 1,419	782	1,369	676	30
	Auxiliary	.. 1,406	2,920	*		

\*Value not known.

**5.2. Capacity:** Speaking of the value of products (vide table 5.1) it is found that the independent establishments of 24-Parganas have claimed that they might produce finished products worth about Rs. 5,380 per establishment with their present equipments. In other words, 85 per cent. of capacity have been utilised in 24-Parganas. In Bankura it is somewhat less, viz., 81 per cent. Nadia and Murshidabad units have utilised 67 and 71 per cent. respectively of their present capacity.



**6.1. Raw materials and their collection:** With Government of India ban on import of Ceylon-shells, South Indianshells,—those raised on Government account at Madras coast (and partly purchased and distributed by Government of West Bengal), as also shells collected by private merchants from the sea coasts of Sivaganga, Ramnad, etc.,—completely monopolise the market.

The table below sums up the supply position:—

(In percentages.)

Items of principal raw materials.	Name of district.			
	Bankura.	24-Parganas.	Nadia.	Murshidabad.
<b>Mahajan.</b>				
Conch-shell	3	100	13	6
Semi-finished bangles and cut pieces of Conch-shell.	1	100	33	1
<b>Co-operative.</b>				
Conch-shell .. .. .	15		37	12
Semi-finished bangles and cut pieces of Conch-shell.				1
<b>Market.</b>				
Conch-shell .. .. .	82		50	82
Semi-finished bangles and cut pieces of Conch-shell.	99		67	98

**7.1. Value of raw materials consumed:** Tables 4.1 and 4.2 indicate the average quantity and value of the raw materials consumed by the artisans.

**7.2.** Craftsmen of Bongaon, perhaps because of their superior skill, are mostly engaged in shaping and polishing semi-finished bangles; they consume little of conch-shells. On the other hand craftsmen of Bankura and other places do more of primary processing and, therefore, consume more of shells. The comparative position is indicated below:—

Locality.	Type of unit.	Number of units.	Average quantity consumed.		
			Conch-shells (pair).	Semi-finished bangles (pair).	Cut pieces of conch-shells (value only). Rs.
1. Bankura	Independent	119	401	23	270
	Auxiliary	145	222	650	*
2. Bongaon of 24-Parganas.	Independent	17	23	2,709	..
	Auxiliary	3	..	5,533	..
3. Nadia	Independent	81	322	378	19
	Auxiliary	62	355	1,028	*
4. Murshidabad	Independent	200	203	640	93
	Auxiliary	112	602	106	*

\*Value not shown.

8.1. **Labour:** Tables 3.1 and 3.2 analyse details of the labour position. As much as 92 per cent. of the establishments, it will be noticed, are run entirely by family labour. Wages of outside labour engaged (in the few cases reported) differ widely from region to region, from Rs. 29 at Kandi sub-division of Murshidabad to Rs. 66 at Ranaghat sub-division of Nadia.

9.1. **Working expenditure:** Cost of raw materials, not unnaturally, account for as much as 84 per cent. of the total expenditure for independent units.

9.2. All the independent units and the majority of auxiliary units also own the tools they require and incur no expenditure on this account.

9.3. The total expenditure and the total value of products per establishment differ widely from area to area and the position is somewhat as follows:—

Name of place.	Type of unit.	Total expenditure per establishment. (Rs.)	Total value of products, by-product and work done per establishment. (Rs.)	Cost of production per rupee worth of goods.
1. Bankura	Independent	2,182	3,250	0.67
2. Bongaon town of 24-Parganas.		3,637	4,590	0.79
3. Nadia		2,119	3,078	0.69
4. Murshidabad		1,345	2,107	0.64

9.4. The cost per rupee worth of goods is only Re. 0.64 in Murshidabad, and is the lowest figure, while it is as high as Re. 0.79, the highest reported in the case of Bongaon artisans.

10.1. **Income margin:** Because of their comparatively heavy outturn, Bankura artisans (independent units) in spite of somewhat high cost of production, earned Rs. 1,068 per year on an average. Nadia and 24-Parganas with Rs. 959 and Rs. 953 respectively per year come next, while Murshidabad units in spite of their low cost of production earned only a gross income of Rs. 762 per year approximately, because of their lower output.

An auxiliary unit, working in 24-Parganas, earned about Rs. 1,058 per year per establishment, while the corresponding figure for a Nadia unit is only about Rs. 384. The income-margin in the cases of the Bankura and Murshidabad auxiliary units is almost of the same order, i.e., a little more than Rs. 50 per month, on an average.

11.1. **Family income:** The average income from this craft varies from Rs. 50 per month at Bankura and Murshidabad for auxiliary units to Rs. 89 in the case of independent units of Bankura. The margin in any case is hardly sufficient for the maintenance of the average industrial family of the size of 5.4 members. Even so, as table 8.2 will indicate, about 65 per cent. of the families derive 50 per cent. or more of their income from shell-wares manufacture.

12.1. **Marketing:** Auxiliary establishments or the *bani* workers work for the brokers and naturally do not have to worry about marketing their products.

12.2. The independent artisans, as table 7.4 will indicate, have mostly direct contact with at least the first market. Some 12 per cent. of the artisans in Murshidabad and 44 per cent. in Ranaghat area sell their wares by hawking, while 76 per cent. of the establishments in 24-Parganas, 12 per cent. in Murshidabad and 4 per cent. in Sadar sub-division of Bankura sell their wares from their own premises. Quite a number of artisans in Bankura again have direct contact with markets at Calcutta, Bihar and Orissa.

12.3. Table 7.5 indicates the usual markets where the finished products are offered for sale. Majority of the markets, first as also ultimate, lie within a radius of 50 miles of the place of production.

12.4. Enquiry at Calcutta market reveals that on an average there is some difference between the prices charged at the manufacturers' end and those in the Calcutta market.

Articles.	Prices at the manufacturers' end		Prices in the Calcutta market.	
	(Rs.)		(Rs.)	
Conch bangles .. ..	2 to 15	(per doz.)	3 to 19	(per doz.)
Blowing conches .. ..	0.5 to 8	(each)	1 to 10	(each).

13.1. **Capital structure:** Table 1.1 and the four tables following give an idea of the capital structure of the industrial units. It will be seen that the total productive capital employed in the industry is about Rs. 495 per establishment surveyed, of which Rs. 255 come under fixed capital. In other words, for every rupee spent in fixed capital, there has been an investment of almost an equal amount in working capital.

14.1. **Assets:** Table 1.2 analyses the asset position in greater details. A major share of the total value of assets, i.e., about Rs. 197, is held in land and buildings. An establishment maintains Rs. 92, on an average, in the form of cash. Machines, as already stated, are not required by the establishments.

14.2. Table 1.3 will indicate the distribution of establishments according to the value of assets. As might be expected, 78 per cent. of these establishments come under the lowest asset-group, i.e., up to Rs. 500.

15.1. **Liabilities:** Position regarding liabilities is analysed in table 2.1. About 32 per cent. of the establishments surveyed have some sort of liability. The total value of liabilities per establishment having the liability is about Rs. 290, of which an amount of Rs. 251 has been incurred on account of raw materials.

15.2. **Credit facilities:** Table 2.2 throws light on the credit facilities enjoyed and the amount of borrowings. About 84 per cent. of the total credit came from private sources. The rates of interest charged against loans received from this source vary widely, the average rate being about 3 per cent. per annum. The units of 24-Parganas and Murshidabad (Talbagh sub-division) borrowed money from this source only. State supplied some 14 per cent. of the total credit, the average rate of interest charged is about 5.58 per cent. per annum. Banks come to the aid of the units working in Bishnupur sub-division of Bankura, while co-operative societies supplied loans to those working in Kandi subdivision of Murshidabad. The average rates of interest charged by these sources were 10.84 per cent. and 5.22 per cent. respectively per year.

**16.1. Difficulties:** As already indicated, in spite of West Bengal Government's efforts to procure and supply Madras shells, South Indian merchants, those from Ramnad, Tuticorin and other places exercise a very effective and firm control on the supply of conch-shells and for all practical purposes there is a sellers' market. In the result, the artisans often have to pay unusually high prices and even then they cannot always secure adequate supply.

**16.2.** Incidentally it is interesting to note that prices of shells have gone up by nearly 682 per cent. since 1940-41 as indicated below:—

Year.				Price of conch-shells per thousand (Rs.) full-sized pieces, Turunelveli Chanks.	Percentage of increase over the price level of the year, 1940-41.
				Rs. nP.	Rs. nP.
1940-41	..	..	..	212.50	....
1951-52	..	..	..	1,137.00	435.06
1952-53	..	..	..	1,187.00	458.59
1955-56	..	..	..	1,327.00	524.47
1956-57	..	..	..	1,576.00	641.65
1957-58	..	..	..	1,661.00	681.65

**17.1. Competition and prospect:** Shell-bangles, once so popular for their finish and design, now face serious competition from cheaper and more durable plastic wares, and in spite of their sentimental value to orthodox Hindus, shell-bangles are being gradually pushed out.

Salvation of this cottage industry would apparently lie in provision for better capital, arrangements for regular supply of quality shells at reasonable prices as also in improvement and change in design and, if possible, a change-over to manufacture of other products.

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The 6th October 1960.

## NOTES ON STATISTICAL TABLES

As already stated, schedules in respect of 739 establishments were accepted for analysis. Establishments engaged in the industry are mainly of two types, namely, (1) establishments that purchase raw materials and sell finished products independently and (2) establishments that receive raw materials from Dadandars and supply them finished products against what may be called wages. An establishment belonging to the former group has been termed as an independent unit, while one belonging to the latter, an auxiliary one. The two types have been separately shown in the tables as they are fundamentally different. It may be noted, however, that an independent establishment may also partly work for a Dadandar or other customers.

The statistical tables prepared in this regard are discussed below :

**Table 1.1. Average value of fixed and working capital employed by establishments:** This table read with the next 4 tables will give an idea of the capital structure of the industry as on the date of enquiry. The present table furnishes information relating to the capital employed by the establishments surveyed. The total productive capital employed per establishment in the industry is about Rs. 495, on an average, roughly half of which comes under fixed capital. The average value of investment in productive capital is the highest (about Rs. 902) in the case of the establishments in 24-Parganas. It is about Rs. 569 in the case of those in Bankura. In Nadia and Murshidabad the average value of productive capital employed is Rs. 419 and Rs. 441 respectively. It may further be seen that for every rupee spent on working capital, there has been an investment of Rs. 1.07 in fixed capital.

**Table 1.2. Details of assets of establishments:** This table gives an idea of the average value of different types of assets. The total value of assets per establishment in this industry is about Rs. 495, about 40 per cent. of which have been invested in land and buildings. The establishments also maintain, on an average, a sum of Rs. 92 as cash.

**Table 1.3. Distribution of establishments according to value of assets:** This table gives the distribution of establishments according to the value of assets into seven groups, viz., (1) up to Rs. 500, (2) Rs. 501 to Rs. 1,000, (3) Rs. 1,001 to Rs. 2,000, (4) Rs. 2,001 to Rs. 3,000, (5) Rs. 3,001 to Rs. 4,000, (6) Rs. 4,001 to Rs. 5,000 and (7) Rs. 5,001 and above.

About 78 per cent. of the establishments fall under the lowest asset-group, i.e., up to Rs. 500. Only a few units of Bankura, 24-Parganas and Nadia have invested more than Rs. 4,000 in assets.

**Table 1.4. Percentage of establishments paying rent against fixed assets:** This table will give an idea about the percentage of establishments paying rent against fixed assets. The averages have been calculated on the actual number of establishments paying rents. Land and buildings constitute the only item of fixed assets for which rents have to be paid excepting for one establishment in the Bishnupur sub-division of Bankura that pays an annual amount of Rs. 45 for hiring tools. No establishment in the two sub-divisions of Jangipur and Lalbagh in Murshidabad district pays any rent. The average expenditure incurred by an establishment of this district towards payment of rent has been the lowest (Rs. 5.92 per year). It is, however, the highest (Rs. 68.64) in the case of Bankura. The corresponding figures for the other two districts, namely, 24-Parganas and Nadia are Rs. 8.61 and Rs. 10.51 respectively.

**Table 1.5. Manner of acquisition of machineries and tools:** This table furnishes information on the manner of acquisition of machineries and tools. Additional information have been given in respect of "any machinery and tools" purchased during the year (12 months) preceding the date of enquiry, i.e., the year 1957-58 corresponding to the Bengali calendar year of 1364-65 B.S.

No machines are used in this industry. Nearly 98 per cent. of the establishments work with their own tools worth about Rs. 52 on an average.

A list showing the various types of tools and other accessories used in the industry appears at Appendix C.

**Table 2.1. Liabilities of establishments:** The next three tables in this series relate to finance and credit. Of these, table 2.1 furnishes information on the liabilities of establishments engaged in the industry.

As much as 31.66 per cent. of establishments engaged in this industry have an outstanding liability of about Rs. 290, on an average. Of this a liability of Rs. 251 has been incurred on account of raw materials. The average value of liabilities has been the highest in Nadia (Rs. 538) while the Murshidabad units have an average liability of Rs. 185. In Bankura and 24-Parganas, the corresponding figures are Rs. 281 and Rs. 347 respectively.

**Table 2.2. Sources of credit:** This table is on the sources of liabilities. It will be seen that as much as 84 per cent. of total credit in the industry were obtained from private sources. Roughly 14 per cent. of the total credit came from State with an average rate of interest of 5.58 per cent. per annum. Banks supplied credit only to some Bankura units, while co-operative societies came to the aid of certain manufacturing units of Murshidabad. The average rate of interest charged has been the highest in the case of the credit provided by banks. Only 2 per cent. of the total credit in Bankura were supplied by this source, the average rate of interest being 10.84 per cent. per annum. In Murshidabad the average rate of interest charged by the co-operative societies was 5.22 per cent. per annum.

**Table 2.3. Additional capital required for improvement:** This table summarises the information on the requirement of additional capital on various accounts.

**Table 3.1. Average number of man-months worked per establishment:** This table furnishes information on the labour employed by the industry. Most of the establishments are run solely by family labour. It is only in the case of some 8 per cent. of the establishments that outside labour has been employed.

**Table 3.2. Average annual wages paid by establishments:** This table gives an idea of wages paid to hired labour. Average wages including cash receipts and receipts in kind earned by hired labour have been worked out on the basis of the actual number of man-months worked in the industry.

It appears that an independent manufacturing unit of 24-Parganas pays an average amount of Rs. 56 to a labourer employed on monthly wage basis. In Nadia, Bankura and Murshidabad the corresponding figures are Rs. 48, Rs. 43 and Rs. 30 respectively. The Nadia units have made all payments in cash, whereas in other districts a small share of the total wages has been received in kind.

**Table 4.1. Average value of consumption of raw materials, fuels, etc., per establishment:** This table furnishes details of cost of production on consumption of raw materials, fuels, etc. Cost incurred on annual repairing and for work done through others are also indicated. The total cost in this table does not, however, include labour, rent and interest charges, details of which have been shown in table 6.1.

It may be seen that for an independent unit raw materials alone constitute, on an average, about 90 per cent. of the total costs (excluding labour, rent and interest) as shown in this table. This percentage is still higher in the case of the establishments in 24-Parganas.

An auxiliary unit may also purchase a portion of raw materials over and above the quantity supplied by the dadandars. They also purchase auxiliary materials required for production. Except in 24-Parganas raw materials constitute the major cost item in their cases as well.

**Table 4.2. Average quantity and value of principal basic materials consumed by establishments:** This table is supplementary to table 4.1 where values of raw materials consumed have been furnished. In this table is given an idea of the quantity and value of the principal basic materials consumed by the independent units. The principal basic materials are (1) conch-shells, (2) semi-finished bangles and (3) cut pieces of conch-shells. It will be seen that on an average about 275 pair of conch-shells valued at Rs. 897 are annually consumed per establishment while the total expenditures for the other two items are Rs. 444 and Rs. 126 respectively.

The names of raw materials used in the industry are indicated in Appendix C.

**Table 5.1. Average value of products, by-products and work done per establishment:** This table will give an idea of the value of production. The average value of products made by the independent establishments is the highest, Rs. 4,586 in 24-Parganas. It is the lowest (Rs. 2,076) in Murshidabad. In the case of the other two districts, viz., Bankura and Nadia, the average value of products is Rs. 3,107 and Rs. 3,016 respectively. The average capacity of production per establishment has been calculated at Rs. 5,380 for the units of 24-Parganas and it is found that about 85 per cent. of the capacity have been utilised there. The manufacturing units of Bankura have utilised about 81 per cent. of their capacity of production, while in the cases of the manufacturing units of Nadia and Murshidabad, the percentage of capacity utilised is 67 and 71 respectively.

The amount received by the auxiliary units for the work they have done for dadandars is the highest, Rs. 1,127 per establishment, in 24-Parganas. On this score the units of Bankura, Murshidabad and Nadia have earned Rs. 699, Rs. 648 and Rs. 402 respectively.

**Table 5.2. Average quantity and value of principal products manufactured by establishments:** This table is supplementary to table 5.1. Among the independent establishments, only some units that are working in the Sadar subdivision of Nadia, and Sadar and Kandi subdivisions of Murshidabad have produced semi-finished bangles. The Nadia (Sadar) units have produced, on an average, 70 pair and the Murshidabad (Sadar) units 3,054 pair of the same, worth about Rs. 50 and Rs. 2,650 respectively. In Kandi subdivision the average outturn is insignificant. Finished bangles, however, constitute the main item of products made in this industry. The average quantity produced per establishment is of the order of about 3,403 pair in Bankura, 2,774 pair in 24-Parganas, 2,008 pair in Nadia and 1,419

pair in Murshidabad, the corresponding values being Rs. 3,072, Rs. 4,586, Rs. 2,969 and Rs. 1,369 respectively. The value of products made by the auxiliary units being not known only the quantities produced per establishment have been furnished. The units of 24-Parganas have produced, on an average, 5,367 pair of finished bangles. The average production of this item is 1,785 pair and 1,406 pair respectively in the two districts of Bankura and Murshidabad. The production per establishment in Nadia is the lowest (1,062 pair only). As for semi-finished bangles, the average outturn has been 2,920 pair in Murshidabad, 1,417 pair in Nadia and 1,088 pair in Bankura.

**Table 6.1. Analysis of cost of production:** This table gives a complete picture of the cost of production for the industry. Taking all the cost items into account the cost of production per establishment is the highest in the case of the independent units of 24-Parganas where it is about Rs. 3,637. In Nadia and Bankura the average cost per establishment is Rs. 2,119 and Rs. 2,182 respectively, while it is about Rs. 1,345 in Murshidabad.

**Table 6.2. Cost of production expressed in terms of value of production:** The present table is almost similar in structure to table 6.1. Cost of production in this table has been expressed as a fraction of the total value of production. It will be seen that the overall total cost is Re. 0.67 per rupee value of production and work done. It is the highest (Re. 0.79) in 24-Parganas and the lowest (Re. 0.64) in Murshidabad. In Nadia and Bankura, the corresponding figures are Re. 0.69 and Re. 0.67 respectively.

Among the independent establishments, those in Bankura have earned a gross income of Rs. 1,068 per establishment per year after allowing for the different costs of production. The corresponding figures for Nadia and 24-Parganas are a little more than Rs. 950. The income margin is Rs. 762 only in the case of the Murshidabad units.

As for the auxiliary establishments, those working in 24-Parganas derive a gross income of Rs. 1,058 per establishment per year. The income margins are Rs. 604 and Rs. 615 in the cases of the units working in Bankura and Murshidabad. It is, however, the lowest (Rs. 384 only) in the case of the Nadia units.

**Table 7.1. Sources of supply of principal raw materials:** The sources of supply of the principal raw materials have been furnished in this table. Taking all the independent establishments into consideration, it will be seen that about 74 per cent. of conch-shells consumed by the establishments are purchased from markets. 19 per cent. are obtained from co-operative societies while 7 per cent. of the total supply come from mahajans. As for semi-finished bangles and cut pieces of conch-shells, 71 per cent. of the total value of such materials are obtained from markets while 29 per cent. are supplied by mahajans. In 24-Parganas, 100 per cent. of the basic materials are received from mahajans.

**Table 7.2. Distance of usual markets of raw materials and types of transport used for carrying goods from markets:** The distance of the establishments from the usual markets where raw materials are purchased has been shown in the table. The types of transport used for carrying raw materials from the markets to the establishments where the materials are utilised for producing finished goods have also been indicated.

Twenty-four out of 417, i.e., about 6 per cent. of the establishments obtain their supply of raw materials in their own premises. For a particular establishment that purchases raw materials, the usual market is sometimes



more than one. Most of the usual markets of raw materials are not very far away from the establishments. In fact, nearly 56 per cent. of the usual markets lie within a distance not exceeding 5 miles. The types of transport generally used are motor buses, motor trucks, trains, etc.

**Table 7.3. Cash and credit purchase of raw materials:** The terms of purchase of raw materials as made by the establishments have been shown in this table. It will be seen that purchases made by the independent establishments have been mostly paid in cash except in 24-Parganas where 99 per cent. of the total purchases have been made on credit. All auxiliary establishments have purchased materials against cash payments except in Murshidabad (Kandi subdivision). But here also the percentage of credit to total purchases made is negligible.

**Table 7.4. Agency for sale of finished products:** This table furnishes information relating to the sale of finished goods through different agencies for sale.

As the auxiliary establishments will not come in this picture, the figures for sale in this table relate to the independent establishments only. The average value of sales is the highest (Rs. 4,554) per establishment of 24-Parganas. The Sadar units of Murshidabad receive even more than this amount (Rs. 5,039 per establishment), but the overall value of sales per establishment for this district is the lowest (Rs. 2,152). The average values of annual sales effected by the units of Bankura and Nadia are more or less of the same order (Rs. 3,131 and Rs. 3,051 respectively). The sales have been effected directly by the establishments in most cases. Only in the case of the Sadar subdivision of Nadia a little over one per cent. of the total sales have been effected through mahajans.

**Table 7.5. Distance of usual markets for sale of finished products and types of transport used for carrying them to markets:** This table is similar in structure to table 7.2 discussed before. An idea of the distance between the establishments where goods are produced and the markets where they are usually sold, has been furnished in this table.

Owners of some 12 per cent. of the establishments in Murshidabad and 44 per cent. in Ranaghat sell their finished products by hawking. 38 out of 417, i.e., about 9 per cent. of the total establishments effect sales of products in their own premises. For a particular establishment the usual market is sometimes more than one. It may be seen that many of the markets are lying at long distances. Only about some 33 per cent. of the markets lie within a distance of 10 miles. In 24-Parganas, however, all finished goods find their markets within this distance. 17 per cent. of the establishments use trains for carrying their products. Some 30 per cent. of the establishments use more than one type of transport.

**Table 8.1. Size and family income by sources:** The overall size of the family is 5.4 and the overall monthly income is about Rs. 98 per family. A major share of this income comes from industrial activities including manufacture of conch-shell products. The overall earning from this source is about Rs. 63 per month.

**Table 8.2. Percentage of families deriving 50 per cent. or more income from different sources:** This table is supplementary to table 8.1. Only those families that derive 50 per cent. or more income from any particular source have been presented in this table. Instead of the actual number of such families, their percentages to the total number have been indicated. It is to be noted that the percentage figures may not add up to 100 as there

might be certain families which do not derive 50 per cent. of the total income from any particular source. Altogether 65 per cent. of the families derive not less than 50 per cent. of their income from the source, "industry". 6 per cent. of the families depend primarily on agriculture and 10 per cent. on sources other than industry, agriculture, trade and profession.

**Table 8.3. Land for cultivation:** This table furnishes information on the average area of land which is owned or possessed per family. It may be noted that total land under possession as shown in column (6) has been taken to be equal to the sum of the total acres owned by the family and the total acres let in minus total acres let out.

Taking all the associated families into consideration, it will be seen that roughly 72 per cent. of them have no land for cultivation and the average area of cultivated land per family having land for cultivation is 2.25 acres only.

**Table 8.4. Family expenditure:** This table gives details of the percentage expenditure on major heads of consumption namely, (1) food, (2) clothing, (3) fuel and light, (4) rent and (5) miscellaneous.

**Table 9.1. Difficulties encountered by establishments:** This table is based on the experience of the establishments as regards the difficulties encountered by them on various accounts. An establishment may face difficulties from one or more sources. Want of raw materials is a problem to as much as 72 per cent. of the establishments. In the case of Murshidabad as much as 93 per cent. of the units face difficulties on this account. 66 per cent. of the establishments suffer for lack of finance, while 36 per cent. face competition from inland goods. 25 per cent. of the establishments surveyed face difficulties in marketing their products.

**Table 9.2. Willingness to join co-operative societies:** Information have been furnished in this table showing if the establishments have any willingness to join any form of co-operative society.

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The 6th October 1959.

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**TABLES**

## 14

Name of--

Name of—		Type of industry	Number of establishments surveyed.	Average productive capital employed per establishment (Rs.).			Ratio of fixed capital to working capital.
District.	Subdivision.			Fixed capital.	Working capital.	Total productive capital.	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Bankura	Sadar	Independent	52	546.60	170.05	717.25	3.20
		Auxiliary	77	413.01	13.17	428.18	27.23
		Sub-total	129	466.86	77.84	544.70	6.00
	Bishnupur	Independent	67	332.64	683.99	1,018.63	0.48
		Auxiliary	68	154.29	17.65	171.94	8.74
Sub-total		135	242.81	349.34	592.15	0.70	
	Total	264	352.20	216.67	568.96	1.63	
24 Parganas	Bongaon	Independent	17	398.00	583.29	981.29	0.68
		Auxiliary	3	369.33	85.67	455.00	4.31
		Total	20	393.70	598.65	902.35	0.77
	Nadia	Sadar	Independent	72	175.98	491.66	667.64
Auxiliary			58	67.86	19.41	87.27	3.50
Sub-total			130	127.74	280.97	408.71	0.45
Ranaghat		Independent	9	382.89	358.44	741.33	1.07
		Auxiliary	4	23.00	..	23.00	..
	Sub-total	13	272.15	248.15	520.30	1.10	
	Total	143	140.87	277.98	418.85	0.51	

Murchidabad	..	Sadar	..	..	Independent	..	51	342.15	900.53	1,242.68	0.38
	..		..	..	Auxiliary	..	81	130.25	32.74	162.99	3.98
	..		..	..	Sub-total	..	132	212.12	368.02	580.14	0.68
<hr/>											
Kandi	..		..	..	Independent	..	120	253.19	138.24	391.43	1.83
	..		..	..	Auxiliary	..	30	153.04	8.48	161.52	18.06
	..		..	..	Sub-total	..	150	233.16	112.29	345.45	2.08
<hr/>											
Jangipur	..		..	..	Independent	..	24	125.32	176.33	301.65	0.71
	..		..	..	Sub-total	..	24	125.32	176.33	301.65	0.71
<hr/>											
Lalbagh	..		..	..	Independent	..	5	290.00	49.00	339.00	5.92
	..		..	..	Auxiliary	..	1	214.00	..	214.00	..
	..		..	..	Sub-total	..	6	277.34	40.83	318.17	6.79
<hr/>											
	..		..	..	Total	..	312	216.81	224.04	440.85	0.97
<hr/>											
	..		..	..	Grand total	..	739	255.30	239.55	494.85	1.07

Table 1.2—Details of assets of establishments.

District.	Name of—		Type of industry.	Number of establishments surveyed.	Average value per establishment. Value of fixed assets (Rs.).		
	Subdivision.	(1)			Land and buildings.	Machineries.	Furniture, etc.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Bankura	Sadar	Independent	..	52	499.90	..	44.89
		Auxiliary	..	77	383.57	..	29.13
		Sub-total	..	129	430.46	..	35.48
	Bishnupur	Independent	..	67	191.09	..	123.48
24 Parganas	Bongeaon	Auxiliary	..	68	90.29	..	63.87
		Sub-total	..	135	140.32	..	93.45
		Total	..	204	282.09	..	65.13
			..	17	282.06	..	4.18
Nadia	Sadar	Independent	..	72	124.14	..	48.30
		Auxiliary	..	58	31.45	..	36.41
		Sub-total	..	130	82.79	..	42.99
	Ranaghat	Independent	..	9	246.33	..	25.22
Total		Auxiliary	..	4	12.50	..	10.50
		Sub-total	..	13	174.38	..	20.69
		Total	..	143	91.12	..	40.96
			..	20	294.75	..	3.95
Total				20	294.75	..	95.00
Total				72	124.14	..	48.30
Total				58	31.45	..	36.41
Total				130	82.79	..	42.99
Total				9	246.33	..	25.22
Total				4	12.50	..	10.50
Total				13	174.38	..	20.69
Total				143	91.12	..	40.96

<b>Murshidabad</b>	..	Sadar	..	..	Independent	..	51	273.24	..	58.52	10.89
	..		..	..	Auxiliary	..	81	63.85	..	65.78	0.02
	..		..	..	Sub-total	..	132	144.75	..	62.98	4.39
<b>Kandi</b>	..		..	..	Independent	..	120	213.90	..	37.12	2.17
	..		..	..	Auxiliary	..	30	124.00	..	26.04	2.40
	..		..	..	Sub-total	..	150	195.92	..	35.02	2.22
<b>Jangipur</b>	..		..	..	Independent	..	24	100.62	..	22.57	2.13
	..		..	..	Sub-total	..	24	100.62	..	22.57	2.13
<b>Lalbagh</b>	..		..	..	Independent	..	5	260.00	..	29.80	0.20
	..		..	..	Auxiliary	..	1	200.00	..	14.00	..
	..		..	..	Sub-total	..	6	250.00	..	27.17	0.17
	..		..	..	Total	..	312	167.98	..	45.74	3.09
	..		..	..	Grand total	..	739	197.30	..	50.61	7.39





<b>Murshidabad</b>	<b>.. Sadar</b>	.. Independent	51	64.10	71.20	57.11	542.82	155.47	9.80	1,242.68
		Auxiliary	81	..	..	..	32.68	0.06	..	162.99
		Sub-total	132	24.76	27.51	22.08	229.78	60.10	3.79	580.14
	<b>Kundi</b>	.. Independent	120	16.54	6.48	22.98	45.53	46.71	..	391.43
		Auxiliary	30	1.61	1.00	0.93	4.60	0.34	..	161.62
		Sub-total	150	13.55	5.38	18.57	37.35	37.44	..	345.45
	<b>Jungipur</b>	.. Independent	24	33.11	14.87	65.87	34.92	27.60	..	301.05
		Sub-total	24	33.17	14.87	65.87	34.92	27.50	..	301.65
	<b>Lalbagh</b>	.. Independent	5	15.60	2.60	1.60	23.20	0.00	..	339.00
		Auxiliary	1	..	..	..	..	..	..	214.00
		Sub-total	6	13.00	2.17	1.33	19.33	5.00	..	318.17
	<b>Total</b>	..	312	19.79	15.41	23.36	118.23	45.64	1.61	440.85
	<b>Grand Total</b>		739	27.64	18.50	43.03	91.90	57.26	1.22	494.85

Table 1-3.—Distribution of establishments according to value of assets.

Name of—		Type of industry.	Establishments having total value of assets.									
District.	Subdivision.		No. of establishments surveyed.	Up to Rs. 500.		Rs. 501—1,000.		Rs. 1,001—2,000.		P. C.	P. C.	P. C.
				No.	P. C.	No.	P. C.	No.	P. C.			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)			
Bankura	Sadar	Independent	..	52	35	67.31	6	11.54	6	1.54		
		Auxiliary	..	77	54	70.13	14	18.18	6	7.79		
		Sub-total	..	129	89	68.99	20	15.50	12	9.30		
	Bishnupur	Independent	..	67	38	56.71	11	16.42	9	13.43		
		Auxiliary	..	68	66	97.06	2	2.94	..	..		
		Sub-total	..	135	104	77.04	13	9.63	9	6.67		
		Total	..	264	193	73.11	33	12.50	21	7.95		
24-Parganas	Bongaon	Independent	..	17	11	64.70	2	11.77	2	11.77		
		Auxiliary	..	3	2	66.67	1	33.33	..	..		
		Total	..	20	13	65.00	3	15.00	2	10.00		
Nadia	Sadar	Independent	..	72	55	76.39	7	9.72	3	4.17		
		Auxiliary	..	58	57	98.28	1	1.72	..	..		
		Sub-total	..	130	112	86.15	8	6.15	3	2.31		
	Raנגhat	Independent	..	9	7	77.78	..	..	1	11.11		
		Auxiliary	..	4	4	100.00	..	..	..	..		
		Sub-total	..	13	11	84.62	..	..	1	7.69		
		Total	..	143	123	86.01	8	5.59	4	2.80		

Murshidabad .. Sadar ..	.. Independent	51	18	35.29	9	17.65	10	19.61
	.. Auxiliary ..	81	79	97.53	2	2.47	..	..
	.. Sub-total ..	132	97	73.48	11	8.33	10	7.58
Kandi ..	.. Independent	120	95	79.17	17	14.17	6	5.00
	.. Auxiliary ..	30	29	96.67	1	3.33	..	..
	.. Sub-total ..	150	124	82.66	18	12.00	6	4.09
Jaugipur ..	.. Independent	24	23	95.83	..	..	1	4.17
	.. Sub-total ..	24	23	95.83	..	..	1	4.17
Lalbagh ..	.. Independent	5	4	80.00	1	20.00	..	..
	.. Auxiliary ..	1	1	100.00	..	..	..	..
	.. Sub-total ..	6	5	83.33	1	16.67	..	..
Total		312	249	79.81	30	9.62	17	5.45
Grand total		739	578	78.21	74	10.02	44	5.95

376/4.6.76



<b>Murshidabad ..</b>	<b>Sadar ..</b>	<b>Independent ..</b>	51	9	17.65	5	9.80	..	..	..	..
	<b>Auxiliary</b>	..	81	..	..	..	..	..	..	..	..
	<b>Sub-total</b>	..	132	9	6.82	5	3.79	..	..	..	..
<b>Kandi ..</b>	<b>Independent ..</b>	..	120	1	0.83	1	0.83	..	..	..	..
	<b>Auxiliary</b>	..	30	..	..	..	..	..	..	..	..
	<b>Sub-total</b>	..	150	1	0.67	1	0.67	..	..	..	..
<b>Jangipur</b>	<b>Independent ..</b>	..	24	..	..	..	..	..	..	..	..
	<b>Sub-total</b>	..	24	..	..	..	..	..	..	..	..
<b>Lalbagh ..</b>	<b>Independent ..</b>	..	5	..	..	..	..	..	..	..	..
	<b>Auxiliary</b>	..	1	..	..	..	..	..	..	..	..
	<b>Sub-total</b>	..	6	..	..	..	..	..	..	..	..
	<b>Total</b>		312	10	3.20	6	1.92	..	..	..	..
<b>Grand Total</b>											
			739	19	2.57	9	1.22	6	0.81	9	1.22

Table 1.4—Percentage of establishments paying rent against fixed assets.

District.	Name of— Subdivision.	Type of industry.	No. of establish- ments surveyed.	Establishments paying rent against—					
				Any fixed assets.		Land and buildings only.		Machinery and tools only.	
				P. C.	Average rent paid. (Rs.)	P. C.	Average rent paid. (Rs.)	P. C.	Average rent paid. (Rs.)
Bankura	(1) .. Sadar .. (2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
		Independent	52	7.69	192.00	7.69	192.00	..	..
		Auxiliary ..	77	5.19	25.47	5.19	25.47	..	..
		Sub-total ..	129	6.20	108.74	6.20	108.74	..	..
	Bishnupur	Independent	67	11.94	52.62	11.94	52.62	..	..
24 Parganas	.. Bongson	Auxiliary ..	68	5.88	20.50	5.88	9.25	1.47	45.00
		Sub-total ..	135	8.89	41.91	8.89	38.16	0.74	45.00
		Total	204	7.58	68.64	7.58	60.39	0.38	45.00
		Independent	17	29.41	13.10	29.41	13.10	..	..
		Auxiliary ..	3	100.00	1.12	100.00	1.12	..	..
Nadia	.. Sadar ..	Total	20	40.00	8.61	40.00	8.61	..	..
		Independent	72	63.89	12.04	63.89	12.04	..	..
		Auxiliary ..	58	48.47	0.97	48.47	0.97	..	..
		Sub-total	130	56.92	7.85	56.92	7.85	..	..
	Ranaghat	Independent	9	44.44	59.75	44.44	59.75	..	..
	.. Ranaghat	Auxiliary ..	4	..	..	..	..	..	..
		Sub-total ..	13	30.77	59.75	30.77	59.75	..	..
		Total	143	54.55	10.51	54.55	10.51	..	..
		Total	143	54.55	10.51	54.55	10.51	..	..

Murahidabad .. Sedar ..	.. Independent	..	51	11.76	2.17	11.76	2.17	..	..
	Auxiliary ..	..	81	1.23	1.00	1.23	1.00	..	..
	Sub-total ..	..	132	5.30	2.00	5.30	2.00	..	..
Kandi ..	.. Independent	..	120	2.50	17.33	2.50	17.33	..	..
	Auxiliary ..	..	30	6.67	2.50	6.67	2.50	..	..
	Sub-total ..	..	150	3.33	11.40	3.33	11.40	..	..
Jangipur	.. Independent	..	24	..	..	..	..	..	..
	Sub-total ..	..	24	..	..	..	..	..	..
Lalbagh	.. Independent	..	5	..	..	..	..	..	..
	Auxiliary ..	..	1	..	..	..	..	..	..
	Sub-total ..	..	6	..	..	..	..	..	..
Total		..	312	3.85	5.92	3.85	5.92	..	..
Grand total		..	739	15.97	19.77	15.97	19.39	0.14	45.00

Table 1.5.—Manner of acquisition of machineries and tools

Name of—		Type of industry.	Establishments working with tools.						
District.	Subdivision.		No. of establishments surveyed.	Purchased by them.		Hired.	Received from Dudandar.		
				P. C.	Average value. (Rs.)	P. C.	Average rent. (Rs.)	Bengali.	Non-Bengali.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	P. C. (9)	P. C. (10)
Bankura	Sadar ..	Independent	52	100.00	44.89	..	..	..	..
		Auxiliary ..	77	96.10	29.73	..	..	2.60	..
		Sub-total ..	129	97.67	35.99	..	..	1.55	..
	Bishnupur	Independent	67	100.00	123.48	..	..	..	..
24-Parganas	Bongaon ..	Auxiliary ..	68	98.53	64.40	..	..	..	..
		Sub-total ..	135	99.26	93.94	..	..	..	..
		Total	264	98.48	65.96	..	..	0.76	..
		Independent	17	100.00	4.18	..	..	..	..
Nadia	Sadar ..	Auxiliary ..	3	100.00	2.66	..	..	..	..
		Sub-total ..	20	100.00	3.95	..	..	..	..
		Total	72	98.41	52.76	..	..	..	..
	Ranaghat	Independent	58	96.55	37.71	..	..	..	..
Nadia	Sadar ..	Auxiliary ..	130	97.52	45.62	..	..	..	..
		Sub-total ..	9	88.89	24.88	..	..	..	..
		Independent	4	100.00	10.50	..	..	..	..
	Ranaghat	Auxiliary ..	13	92.31	20.08	..	..	..	..
24-Parganas	Bongaon ..	Sub-total ..	143	97.02	43.26	..	..	..	..
		Total	17	100.00	4.18	..	..	..	..
		Independent	3	100.00	2.66	..	..	..	..
		Auxiliary ..	20	100.00	3.95	..	..	..	..
Nadia	Sadar ..	Sub-total ..	72	98.41	52.76	..	..	..	..
		Independent	58	96.55	37.71	..	..	..	..
		Auxiliary ..	130	97.52	45.62	..	..	..	..
	Ranaghat	Sub-total ..	9	88.89	24.88	..	..	..	..
24-Parganas	Bongaon ..	Independent	4	100.00	10.50	..	..	..	..
		Auxiliary ..	13	92.31	20.08	..	..	..	..
		Sub-total ..	143	97.02	43.26	..	..	..	..
		Total	17	100.00	4.18	..	..	..	..
Nadia	Sadar ..	Independent	3	100.00	2.66	..	..	..	..
		Auxiliary ..	20	100.00	3.95	..	..	..	..
		Sub-total ..	72	98.41	52.76	..	..	..	..
	Ranaghat	Independent	58	96.55	37.71	..	..	..	..



Murehiddabad	..	Sadar	..	..	51	93.62	66.98	..	..	..	..
	..	Independent	..	..	..	..	..	..	..	..	..
	..	Auxiliary	..	..	81	97.53	66.22	..	..	..	..
	..	Sub-total	..	..	132	96.09	66.49	..	..	..	..
Kandi	..	Independent	..	..	120	97.50	37.48	..	..	..	..
	..	Auxiliary	..	..	30	96.67	27.56	..	..	..	..
	..	Sub-total	..	..	150	97.33	35.51	..	..	..	..
Jangipur	..	Independent	..	..	24	100.00	22.57	..	..	..	..
	..	Sub-total	..	..	24	100.00	22.57	..	..	..	..
Lalbagh	..	Independent	..	..	5	100.00	29.80	..	..	..	..
	..	Auxiliar	..	..	1	100.00	14.00	..	..	..	..
	..	Sub-total	..	..	6	100.00	27.17	..	..	..	..
Total				..	312	97.08	47.05	..	..	..	..
Grand total				..	739	97.66	52.04	..	..	0.28	..

Table 1 B—concl'd.

Table 13—Contd.

Name of—		Type of industry.	No. of establishments surveyed.	Establishments working with tools.										Tools purchased last year.					
District.	Subdivision.			P. C.	Home Purchased made.		P. C.	Purchased from others.		P. C.	Help from others.		P. C.	Received from other sources.		No. of establishments.	Average value. (Rs.)		
					(11)	(12)		(13)	(14)		(15)	(16)		(17)					
(1)	(2)	(3)	(4)																
Bankura	Sadar	Independent	52	..	..	..	..	..	..	..	..	..	..	..	..	25	8-44		
		Auxiliary ..	77	1-30	..	..	..	..	..	..	..	..	..	..	..	52	6-62		
		Sub-total ..	129	0-78	..	..	..	..	..	..	..	..	..	..	..	77	7-21		
	Bishnupur	Independent	67	..	..	..	..	..	..	..	..	..	..	..	..	12	30-08		
		Auxiliary ..	68	..	..	..	..	..	1-47	..	..	..	..	..	..	39	3-83		
		Sub-total ..	135	..	..	..	..	..	0-74	..	..	..	..	..	..	51	10-01		
Total			264	0-38	..	..	..	..	0-38	..	..	..	..	..	..	128	8-32		
24-Parganas	Bongaon	Independent	17	..	..	..	..	..	..	..	..	..	..	..	..	8	2-50		
		Auxiliary ..	3	..	..	..	..	..	..	..	..	..	..	..	..	2	2-00		
		Total	20	..	..	..	..	..	..	..	..	..	..	..	..	10	2-40		
Nad	Sadar	Independent	72	..	..	..	..	..	..	..	..	..	..	1-59	..	56	9-79		
		Auxiliary ..	58	..	..	..	3-45	..	..	..	..	..	..	..	..	42	7-52		
		Sub-total ..	130	..	..	..	1-65	..	..	..	..	..	..	0-83	..	98	8-82		
	Ranaghat	Independent	9	..	..	..	..	..	..	..	..	..	..	11-11	..	7	8-86		
		Auxiliary ..	4	..	..	..	..	..	..	..	..	..	..	..	..	3	7-00		
		Sub-total ..	13	..	..	..	..	..	..	..	..	..	..	7-69	..	10	8-30		
Total			143	..	..	..	1-49	..	..	..	..	..	..	1-49	..	108	8-77		

Murahidabad	..	Sadar	..	Independent	51	..	..	..	6.38	40	10.35
					81	..	..	..	2.47	69	6.30
				Auxiliary ..	132	..	..	..	3.91	109	7.79
				Sub-total							
Kandi	..			Independent	120	..	2.50	..	..	26	6.40
					30	..	..	3.33	..	4	3.25
				Auxiliary ..	150	..	2.00	0.67	..	30	5.98
				Sub-total ..							
Jangipur	..			Independent	24	..	..	..	..	16	4.62
					24	..	..	..	..	16	4.62
				Sub-total ..							
Lalbagh				Independent	5	..	..	..	..	2	10.00
					1	..	..	..	..	..	..
				Auxiliary ..	6	..	..	..	..	2	10.00
				Sub-total ..							
Total					312	..	0.97	0.33	..	1.62	1.57
Grand total					739	0.14	0.41	0.41	0.14	0.96	4.03
											7.84

## FINANCE AND CREDIT.

Table 2.1—Liabilities of establishments.

District.	Name of—		Type of industry.	No. of establishments surveyed.	Establishments having liabilities.		Average value (Rs.) of liabilities per establishment having liabilities for				
	(1)	(2)			No. (5)	P. C. (6)	Land and buildings. (7)	Mechanics and tools. (8)	Raw materials. (9)	Others. (10)	Total (11)
Bansura	..	Sadar	(3)								
			Independent	52	1	1.92	..	..	100.00	..	100.00
			Auxiliary	77	2	2.60	..	..	8.50	..	8.50
			Sub-total	129	3	2.33	..	..	39.00	..	39.00
..	..	Bishnupur	Independent	67	32	47.76	25.78	3.12	310.62	42.44	381.96
			Auxiliary	68	13	19.12	..	22.69	..	64.54	87.23
			Sub-total	135	45	33.33	18.33	8.77	220.89	48.82	296.81
			Total	264	48	18.18	17.19	8.22	209.52	45.77	280.70
24 Parganas	..	Bongaon	Independent	17	16	94.12	..	..	367.81	..	367.81
			Auxiliary	3	1	33.33	..	..	10.00	..	10.00
			Total	20	17	85.00	..	..	346.76	..	346.76
Nadia	..	Sadar	Independent	72	32	44.44	15.62	19.13	674.22	0.37	709.34
			Auxiliary	58	14	24.14	7.14	35.00	70.64	7.65	120.43
			Sub-total	130	46	35.38	13.04	23.96	490.52	2.59	530.11
			Total	9	3	33.33	166.67	..	216.66	270.00	653.33
Ranaghat	..	Ranaghat	Independent	4	..	..	..	..	..	..	..
			Auxiliary	13	3	23.08	166.67	..	216.66	270.00	653.33
			Sub-total	143	49	34.27	22.45	22.49	473.75	18.96	537.65
			Total	..	..	..	..	..	..	..	..

Marahilabad - Sedar	..	Independent	..	51	24	47.06	..	..	42.1.92	20.83	443.76
	..	Auxiliary	..	81	6	7.41	..	..	370.50	10.00	380.50
	..	Sub-total	..	132	30	22.73	..	..	416.44	18.66	435.10
Kandi	..	Independent	..	120	57	47.50	4.44	2.05	77.39	10.51	94.39
	..	Auxiliary	..	30	16	53.33	..	..	30.65	33.44	64.09
	..	Sub-total	..	150	73	48.67	3.47	1.60	67.14	15.54	87.75
Jangipur	..	Independent	..	24	15	62.50	..	..	133.67	36.66	170.33
	..	Sub-total	..	24	15	62.50	..	..	133.67	36.66	170.33
Lalbagh	..	Independent	..	5	2	40.00	..	..	107.50	..	107.50
	..	Auxiliary	..	1	..	..	..	..	..	..	..
	..	Sub-total	..	6	2	33.33	..	..	107.50	..	107.50
Total		..	..	312	120	38.46	2.11	0.97	163.46	18.70	186.24
Grand total		..	..	739	234	31.66	9.31	6.90	251.19	22.95	290.35

Table 2.2—Sources of credit.

District.	Name of—		Type of industry.	Number of establishments having liability.	Average liability per establishment having liabilities. (Rs.)	Sources of credit.		
	Subdivision.					Bank.	Co-operative Society.	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
Bankura	Sadar	Independent	1	100.00	..	..	..	
		Auxiliary ..	2	8.50	..	..	..	
		Sub-total ..	3	39.00	..	..	..	
	Bishnupur ..	Independent	32	381.96	1.23	10.41	..	
		Auxiliary ..	13	87.23	13.67	11.25	..	
Sub-total ..		45	296.82	2.29	10.84	..		
		Total	48	280.71	2.26	10.84	..	
24 Parganas	Bougaon ..	Independent	16	367.81	..	..	..	
		Auxiliary ..	1	10.00	..	..	..	
		Total	17	346.76	..	..	..	
Nadia	Sadar ..	Independent	32	709.34	..	..	..	
		Auxiliary ..	14	120.43	..	..	..	
		Sub-total ..	46	530.11	..	..	..	
	Ranaghat	Independent	3	653.33	..	..	..	
		Auxiliary ..	..	..	..	..	..	
Sub-total ..		3	653.33	..	..	..		
		Total	49	537.65	..	..	..	

Murhidabad	..	Sadar	..	Independent	..	24	448.75	..	..	..
	..		..	Auxiliary	..	6	380.50	..	..	..
	..		..	Sub-total	..	30	435.10	..	..	..
										24.68
Kandi	..		..	Independent	..	57	94.39	..	..	10.34
	..		..	Auxiliary	..	16	64.09	..	..	22.39
	..		..	Sub-total	..	73	87.75	..	..	
Jangipur	..		..	Independent	..	15	170.33	..	..	..
	..		..	Sub-total	..	15	170.33	..	..	..
Lalbagh	..		..	Independent	..	2	107.50	..	..	..
	..		..	Auxiliary	..	..	..	..	..	..
	..		..	Sub-total	..	2	107.50	..	..	..
				Total	..	120	185.24	..	..	6.45
				Grand total	..	234	290.35	0.45	10.84	2.11

Table 2.2—*concid.*

District	Name of— Subdivision.	Type of industry.	Number of estab- lish- ments having liability.	Sources of credit.					
				Co-operative Society.	State.	Others.			
(1)	(2)	(3)	(4)	Rate of interest per cent. per annum. (9)	P. C. of total credit. (10)	Rate of interest per cent per annum. (11)	P. C. of total credit. (12)	Rate of interest per cent per annum. (13)	
Bankura	.. Sadar ..	Independent	1	..	109.00	4.25	..	..	
		Auxiliary	2	..	..	..	100.00	*	
		Sub-total ..	3	..	85.47	4.25	14.53	*	
	Bishnupur ..	Independent	32	..	11.52	4.24	37.25	9.14	
		Auxiliary ..	13	..	73.98	3.50	12.35	27.00	
		Sub-total ..	45	..	10.82	3.97	80.89	9.37	
		Total	48	..	17.42	3.98	80.32	9.35	
24 Parganas	.. Bongaon ..	Independent	16	..	..	..	100.00	0.40	
		Auxiliary ..	1	..	..	..	100.00	2.00	
		Total	17	..	..	..	100.00	0.41	
Nadia	.. Sadar ..	Independent	32	..	4.04	6.25	95.96	0.19	
		Auxiliary ..	14	..	19.57	5.36	80.43	0.33	
		Sub-total ..	46	..	5.12	6.01	94.83	0.20	
	Ranaghat	Independent	3	..	66.84	9.25	33.16	*	
		Auxiliary ..	..	..	..	..	..	..	
		Sub-total ..	3	..	66.84	3.25	33.16	*	
		Total	49	..	9.71	6.13	90.29	0.20	



Marichidabad	..	Sedar	..	Independent	24	..	5.39	6.25	94.61	4.88
	6	Auxiliary	..	..	6	..	2.63	6.25	97.37	0.11
	30	Sub-total	..	..	30	..	4.90	6.25	95.10	4.03
Kandi	57	Independent	..	5.17	43.18	6.05	32.14	2.91		
	16	Auxiliary	..	5.90	64.36	6.27	25.30	*		
	73	Sub-total	..	5.22	46.57	6.10	31.04	2.53		
Jangipur	15	Independent	..	..	30.14	6.00	69.86	8.58		
	15	Sub-total	..	..	30.14	6.00	69.86	8.58		
Lalbagh	2	Independent	..	..	..	..	100.00	*		
	..	Auxiliary	..	..	..	..	..	..		
	2	Sub-total	..	..	..	..	100.00	*		
Total		120	5.22	19.76	6.10	73.79	4.29			
Grand total		234	5.22	13.68	5.58	83.76	3.14			

\* Loan taken without interest.

Table 2-3—Additional capital required for improvement.

District.	Name of— subdivision.	Type of industry.	No. of establish- ments sur- veyed.	Establishments requiring additional capital for—					
				Machinery and tools.		Raw materials.		Land and buildings.	
				P. C.	Average amount (Rs.)	P. C.	Average amount (Rs.)	P. C.	Average amount (Rs.)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Bankura	Sadar	Independent	52	..	..	59.82	612.90	..	..
		Auxiliary	77	..	..	46.75	304.17	..	..
		Sub-total	129	..	..	51.94	447.02	..	..
	Bishnupur	Independent	67	73.13	270.41	1.49	2,000.00	23.88	512.50
		Auxiliary	68	75.00	177.84	1.47	500.00	25.00	458.82
		Sub-total	135	74.07	223.20	1.48	1,250.00	24.44	484.85
		Total	264	37.88	223.20	26.14	470.29	12.50	484.85
24 Parganas	Bongaon	Independent	17	..	..	76.47	1,107.69	17.65	1,833.33
		Auxiliary	3	..	..	100.00	1,066.67	..	..
		Total	20	..	..	80.00	1,100.00	15.00	1,833.33
Nadia	Sadar	Independent	72	4.17	133.33	52.78	936.84	1.38	1,000.00
		Auxiliary	58	3.45	500.00	36.21	990.48	..	..
		Sub-total	130	3.85	280.00	45.38	955.93	0.77	1,000.00
	Ranaghat	Independent	9	11.11	800.00	66.67	1,133.33	..	..
		Auxiliary	4	..	..	100.00	750.00	..	..
		Sub-total	13	7.69	800.00	76.92	980.00	..	..
		Total	143	4.20	366.67	48.25	959.43	0.69	1,000.00

<b>Murshidabad</b>	.. Sedar	..	Independent	..	51	3-92	300-00	82-35	1,186-43	..	..
	Auxiliary	..	..	..	81	4-94	162-50	92-59	598-67	..	..
	Sub-total	..	..	..	132	4-54	208-33	88-64	809-66	..	..
<b>Kandi</b>	..	Independent	..	..	120	38-33	267-61	36-67	510-23	34-16	753-66
	Auxiliary	..	..	..	30	36-67	197-73	40-00	400-00	40-00	658-33
	Sub-total	..	..	..	150	38-00	254-12	37-33	486-61	35-33	732-08
<b>Jangipur</b>	..	Independent	..	..	24	..	..	4-17	500-00	4-17	500-00
	Sub-total	..	..	..	24	..	..	4-17	500-00	4-17	500-00
<b>Lalgabbi</b>	..	Independent	..	..	5	20-00	100-00	20-00	300-00	20-00	400-00
	Auxiliary	..	..	..	1	..	..	..	..	..	..
	Sub-total	..	..	..	6	16-67	100-00	16-67	300-00	16-67	400-00
	Total	..	..	..	312	20-51	247-42	56-09	701-60	17-63	721-82
	Grand total	..	..	..	739	23-00	237-38	44-52	726-53	12-45	676-09

Table 2-3—*concd.*

District.	Name of— Subdivision.	Type of industry.	No. of establi- ments surveyed.	Establishments requiring additional capital for—					
				Raw materials.		Others.		All combined.	
				P.C.	Average amount (Rs.)	P.C.	Average amount (Rs.)	P.C.	Average amount (Rs.)
(1)	(2)	(3)	(4)	(11)	(12)	(13)	(14)	(15)	(16)
Bankura	Sadar	Independent	52	1.92	100.00	5.77	500.00	67.31	538.57
		Auxiliary	77	12.99	350.00	15.58	508.33	75.32	364.31
		Sub-total	129	8.53	327.27	11.63	508.66	72.10	442.47
	Bishnupur	Independent	67	..	..	2.98	572.50	82.09	447.18
		Auxiliary	68	..	..	..	..	80.88	315.81
		Sub-total	135	..	..	1.48	572.50	81.48	381.50
		Total	264	4.17	327.27	6.44	514.41	76.89	409.43
24-Parganas	Bongaon	Independent	17	..	..	..	..	88.24	1,326.66
		Auxiliary	3	..	..	..	..	300.00	1,906.67
		Sub-total	20	..	..	..	..	90.00	1,383.33
		Total	..	..	..	..	..	..	..
Nadia	Sadar	Independent	72	5.56	875.00	23.92	1,968.75	81.94	1,057.63
		Auxiliary	68	3.45	500.00	29.31	894.12	72.41	904.76
		Sub-total	130	4.62	750.00	25.38	1,124.24	77.69	994.06
	Ranaghat	Independent	9	..	..	33.33	1,333.33	100.00	1,288.89
		Auxiliary	4	..	..	..	..	100.00	750.00
		Sub-total	13	..	..	23.08	1,333.33	100.00	1,123.08
		Total	143	4.20	750.00	26.17	1,141.66	79.72	1,008.77

Munshidabad	..	Sadar	..	Independent	..	61	1.96	1,000.00	5.88	583.33	90.20	1,156.09
	..	Auxiliary	..		..	81	1.23	500.00	..	..	98.76	575.63
	..	Sub-total	..		..	132	1.52	750.00	2.27	583.33	95.45	787.54
<hr/>												
..	..	Independent	..		..	120	2.50	433.33	55.00	468.18	95.00	858.42
	..	Auxiliary	..		..	30	..	..	60.00	419.44	96.67	773.27
	..	Sub-total	..		..	150	2.00	433.33	56.00	457.74	95.33	841.15
<hr/>												
Jangipur	..	Independent	..		..	24	..	..	33.33	462.50	37.50	523.22
	..	Sub-total	..		..	24	..	..	33.33	462.50	37.50	522.22
<hr/>												
..	..	Independent	..		..	5	..	..	60.00	700.00	80.00	725.00
	..	Auxiliary	..		..	1	..	..	100.00	300.00	100.00	300.00
	..	Sub-total	..		..	6	..	..	66.67	600.00	83.33	640.00
<hr/>												
	..	Total	..		..	312	1.60	560.00	31.73	467.68	90.70	803.58
<hr/>												
	..	Grand total	..		..	739	2.98	495.45	20.57	632.53	83.63	725.93

## LABOUR AND WAGES

Table 3-1—Average number of man-months worked per establishment.

District	Name of— Subdivision.	Type of industry.	Number of establish- ments surveyed.	Average number of man-months worked per establishment.	Average number of man- months put in by		Average labour per establishment.	P.C. of establishments run solely by family labour.
					Family labour.	Hired labour*.		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Bankura	Sadar	Independent	52	26.04	19.81	6.23	2.52	69.23
		Auxiliary	77	15.64	15.13	0.51	1.51	94.81
		Sub-total	129	19.83	17.02	2.81	1.92	84.50
	Bishnupur	Independent	67	20.34	18.16	2.18	2.67	83.58
24 Parganas	Bongoon	Auxiliary	68	12.35	12.35	..	1.75	100.00
		Sub-total	135	16.31	15.23	1.08	2.21	91.85
		Total	264	18.03	16.10	1.93	2.07	88.26
		Independent	17	18.70	13.76	4.94	1.59	70.59
Nadia	Sadar	Auxiliary	3	12.00	12.00	..	1.00	100.00
		Sub-total	20	17.70	13.50	4.20	1.50	75.00
		Total	72	11.40	9.28	2.12	1.82	86.11
		Independent	58	6.31	6.31	..	1.14	100.00
Ranaghat	Sadar	Auxiliary	130	9.12	7.95	1.17	1.52	93.31
		Sub-total	9	16.11	13.00	3.11	1.67	77.78
		Independent	4	11.00	11.00	..	1.25	100.00
		Auxiliary	13	14.54	12.39	2.15	1.54	84.62
Total	Total	Sub-total	143	9.61	8.35	1.26	1.52	91.61
		Total	143	9.61	8.35	1.26	1.52	91.61

Murahidabad	.. Sadar	.. Independent	51	15.47	15.47	..	1.57	100.00
		Auxiliary	81	14.40	14.40	..	1.42	100.00
		Sub-total	132	14.81	14.81	..	1.48	100.00
..	Kandi	.. Independent	120	10.98	10.22	0.76	1.51	94.17
		Auxiliary	30	9.13	9.13	..	1.20	100.00
		Sub-total	150	10.61	10.00	0.61	1.45	95.33
Jangipur	.. Independent	..	24	18.75	17.96	9.79	1.96	91.67
		Sub-total	24	18.75	17.96	0.79	1.96	91.67
Lalbagh	.. Independent	..	5	6.40	6.40	..	1.20	100.00
		Auxiliary	1	9.00	9.00	..	1.00	100.00
		Sub-total	6	6.83	6.83	..	1.17	100.00
Total		..	312	12.94	12.59	0.35	1.50	97.12
Grand total		..	739	14.24	13.05	1.19	1.71	92.29

\*Excluding casual labour.





[illegible]

\*Including the amount paid to casual labour.

## RAW MATERIALS

Table 4.1.—Average value of consumption of raw materials, fuels, etc., per establishment.

Name of—		Type of industry.	Number of establishments surveyed.	Average value (Rs.) of annual consumption per establishment of							
District.	Subdivision.			Raw materials.	Fuel.	Electricity.	Lubricants.	Packing materials.	Repairing charges.	Work done through others.	Total.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
Bankura	.. Sadar	Independent ..	52	1,545.61	41.60	..	..	2.92	1.27	25.77	1,617.17
	Bishnupur	Independent ..	67	1,919.36	7.94	..	..	3.91	16.93	225.90	2,174.04
	Total ..		119	1,756.04	22.65	..	..	3.48	10.08	138.45	1,930.70
24-Parganas	Bongaon	Independent ..	17	3,318.82	6.30	4.24	..	6.94	8.53	8.82	3,353.65
	Total ..		17	3,318.82	6.30	4.24	..	6.94	8.53	8.82	3,353.65
Nadia	.. Sadar	Independent ..	72	1,550.76	1.38	1.67	..	2.83	3.75	304.57	1,864.96
	Ranaghat	Independent ..	9	2,731.19	13.78	..	..	19.89	5.00	83.33	2,853.19
	Total ..		81	1,681.92	2.76	1.48	..	4.73	3.89	279.98	1,974.76
Murshidabad	.. Sadar	Independent ..	51	3,091.39	3.08	..	0.76	2.14	4.33	355.22	3,456.92
	Kandi	Independent ..	120	316.51	23.88	..	..	1.61	3.38	26.70	372.08
	Jangipur	Independent ..	24	1,654.50	31.17	..	..	8.00	7.29	13.00	1,713.96
	Lalbagh	Independent ..	5	424.00	5.00	..	..	2.20	0.60	..	431.80
	Total ..		200	1,187.35	18.98	..	0.19	2.53	4.02	108.16	1,321.23
..	All combined		417	1,532.60	16.36	0.46	0.09	3.41	5.91	146.13	1,704.96

Table 4.1—*concl.*

Name of—		Type of industry.	Number of establishments surveyed.	Average value (Rs.) of annual consumption per establishment of							
District.	Subdivision.			Raw materials.	Fuel.	Electrity.	Lubri-cants.	Packing materials.	Repairing charges.	Work done through others.	Total.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
Bankura	.. Sadar	.. Auxiliary	77	115.32	27.20	..	..	0.01	0.57	..	143.10
	Bishnupur	.. Auxiliary	68	9.07	3.41	..	..	0.03	10.81	..	23.32
	Total		145	63.30	16.04	..	..	0.02	5.37	..	86.93
24-Parganas	Bongaon	Auxiliary	3	21.67	12.67	..	..	..	32.66	..	67.00
	Total		3	21.67	12.67	..	..	..	32.66	..	67.00
Nadia	.. Sadar	.. Auxiliary	58	11.22	0.47	..	..	0.02	2.91	2.24	16.86
	Ranaghat	.. Auxiliary	4	23.00	..	..	..	..	..	..	23.00
	Total		62	11.08	0.44	..	..	0.02	2.72	2.10	17.26
Murshidabad	Sadar	.. Auxiliary	81	15.55	0.68	..	0.74	..	4.68	..	21.65
	Kandi	.. Auxiliary	30	38.06	18.47	..	..	0.03	3.10	..	59.66
	Lalbagh	.. Auxiliary	1	10.00	11.00	..	..	..	1.00	..	22.00
	Total		112	21.53	5.54	..	0.54	0.01	4.22	..	31.84
All combined			322	39.49	9.35	..	0.19	0.02	4.72	0.40	54.17

**Table 2—Average quantity and value of principal basic materials consumed by establishments.**

Name of—		Type of industry.	Number of establishments surveyed.	Principal basic materials.					Cut pieces of conch-shell.		
District.	Subdivision.			Conch-shell.		Semi-finished bangles.					
				Unit.	Average quantity.	(Rs.)	Unit.	Average quantity.	Average value. (Rs.)	Average value. (Rs.)	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	
Bankura	Sadar	Independent	..	52	Pair	227	744.00	Pair	52	20.19	560.58
	Bishnupur	Independent	..	67	Pair	536	1,843.34	..	..	..	44.82
	Total		..	119	Pair	401	1,362.96	Pair	23	8.82	270.19
24 Parganas	Bongaon	Independent	..	17	Pair	23	89.47	Pair	2,709	3,198.82	..
	Total		..	17	Pair	23	89.47	Pair	2,709	3,198.82	..
Nadia	Sadar	Independent	..	72	Pair	357	1,311.50	Pair	156	195.40	21.67
	Ranaghat	Independent	..	9	Pair	43	130.00	Pair	2,154	2,548.89	..
	Total		..	81	Pair	322	1,180.22	Pair	378	456.90	19.26
Murshidabad	Sadar	Independent	..	51	Pair	772	2,179.51	Pair	897	825.29	49.18
	Kandi	Independent	..	120	Pair	10	28.22	Pair	230	89.05	134.75
	Jangipur	Independent	..	24	..	..	..	Pair	2,165	1,577.42	..
	Lalbagh	Independent	..	5	..	..	..	Pair	547	415.20	..
	Total		..	200	Pair	203	572.71	Pair	640	463.55	93.39
All combined			..	417	Pair	275	896.53	Pair	497	444.00	125.64

Table 4.2—*contd.*

District.	Name of—		Type of industry.	Number of establishments surveyed.	Principal basic materials.						Cut pieces of conch-shell.
	Subdivision.	Conch-shell.			Semi-finished bangles.		Average value. (Rs.)				
		Unit.			Average quantity.	Unit.		Average quantity.			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	
Bankura	Sadar	Auxiliary	77	Pair	125	*	..	..	*	*	
	Bishnupur	Auxiliary	68	Pair	331	*	Pair	1,387	*	*	
	Total		145	Pair	222	*	Pair	650	*	*	
24-Parganas	Bongaon	Auxiliary	3	..	..	..	Pair	5,533	*	..	
	Total		3	..	..	..	Pair	5,533	*	..	
Nadia	Sadar	Auxiliary	58	Pair	380	*	Pair	978	*	*	
	Ranaghat	Auxiliary	4	Pair	..	..	Pair	1,748	*	..	
	Total		62	Pair	355	*	Pair	1,028	*	*	
Murshidabad	Sadar	Auxiliary	81	Pair	823	*	..	..	*	*	
	Kandi	Auxiliary	30	Pair	24	*	Pair	368	*	*	
	Lalbagh	Auxiliary	1	..	..	..	Pair	864	*	..	
	Total		112	Pair	602	*	Pair	106	*	*	
	All combined		322	Pair	378	*	Pair	579	*	*	

\*Supplied by dadandars as such value not known.

# FINISHED PRODUCTS.

Table 5.1—Average value of products, by-products and work done per establishment.

Name of— Subdivision.		Type of industry.	Number of estab- lish- ments surveyed.	Average capacity of produc- tion per estab- lish- ment. (Rs.) (5)	Average value (Rs.) of products and work done per establishment.			Percentage of capacity utilised.		
District.	(2)				(3)	(4)	(6)		(7)	(8)
Bankura ..	Sadar ..	Independent	..	52	3,703.35	2,981.94	9.96	115.29	3,107.19	80.52
	Bishnupur	Independent	..	67	3,919.09	3,203.35	34.18	124.13	3,361.66	81.74
	Total	..	119	3,824.82	3,106.60	23.59	120.27	3,250.46	81.22	
24. Parganas	Bongaon	Independent	..	17	5,379.71	4,585.88	4.35	..	4,590.23	85.24
	Total	..	17	5,379.71	4,585.88	4.35	..	4,590.23	85.24	
Nadia ..	Sadar ..	Independent	..	72	4,293.04	2,842.43	8.68	60.42	2,911.53	66.21
	Ranaghat	Independent	..	9	6,037.44	4,407.89	5.11	..	4,413.00	73.01
	Total	..	81	4,486.86	3,016.37	8.28	53.71	3,078.36	67.23	
Murshidabad	Sadar ..	Independent	..	51	7,307.33	4,752.82	58.39	21.14	4,832.35	65.04
	Kandi ..	Independent	..	120	1,236.59	931.67	1.31	17.23	960.21	75.34
	Jangipur	Independent	..	24	2,453.04	2,395.42	..	..	2,395.42	97.65
	Lalbagh ..	Independent	..	5	1,450.00	694.60	..	..	694.60	47.90
	Total	..	200	2,935.94	2,075.78	15.68	15.73	2,107.19	70.70	
All combined		..	417	3,590.49	2,654.98	16.04	52.30	2,723.32	73.94	

Table 5.1—*conold.*

Name of—		Subdivision.	Type of industry.	Number of establishments surveyed.	Average capacity of production per establishment. (Rs.) (5)	Average value (Rs.) of products and work done per establishment.			Percentage of capacity utilised.		
District.	(1)					(2)	(3)	(4)		Products.	By-products.
Bankura ..	..	Sadar ..	..	Auxiliary	77	..	..	..	830.66	830.66	..
	..	Bishnupur	..	Auxiliary	68	..	..	5.09	549.00	554.09	..
	..	Total	..		145	..	..	2.39	698.57	700.96	..
	..	Bongaon	..	Auxiliary	3	..	..	..	1,126.67	1,126.67	..
24. Parganas	..	Total	..		3	..	..	..	1,126.67	1,126.67	..
	..	Sadar ..	..	Auxiliary	58	..	..	0.02	397.22	397.24	..
	..	Ranaghat	..	Auxiliary	4	..	..	..	477.50	477.50	..
	..	Total	..		62	..	..	0.02	402.40	402.42	..
Murshidabad	..	Sadar ..	..	Auxiliary	81	..	..	..	752.31	752.31	..
	..	Kandi ..	..	Auxiliary	30	..	..	..	378.37	378.37	..
	..	Lalbagh ..	..	Auxiliary	1	..	..	..	252.00	252.00	..
	..	Total	..		112	..	..	..	647.68	647.68	..
All combined				322	..	..	1.08	627.83	628.91	..	

Table 5.2—Average quantity and value of principal products manufactured by establishments.

Name of—		Type of industry.	Number of estab- lish- ments surveyed.	Principal finished products.				Other products average value. (Rs.) (11)						
District.	Subdivision.			Finished bangles.		Semi-finished bangles.								
				Unit.	Average quantity. (6)	Average value. (Rs.) (7)	Unit	Average quantity. (8)	Average value. (Rs.) (10)					
Bankura	(1)	(2)	(3)	(4)	(5)									
	..	Sadar	..	Independent	..	52	Pair	3,427	2,980.63	..	..	1.31		
	..	Bishnupur	..	Independent	..	67	Pair	3,384	3,143.01	..	..	60.84		
24 Parganas	..	Bongaon	..	Independent	..	17	Pair	2,774	4,585.88	..	..	..		
	..		..	Total	..	17	Pair	2,774	4,585.88	..	..	..		
Nadia	..	Sadar	..	Independent	..	72	Pair	1,982	2,789.91	Pair	..	70	50.17	2.35
	..	Ranaghat	..	Independent	..	9	Pair	2,216	4,403.45	..	..	..	..	4.44
	..		..	Total	..	81	Pair	2,008	2,969.19	Pair	..	62	44.60	2.58
Murshidabad	..	Sadar	..	Independent	..	51	Pair	1,739	2,010.45	Pair	..	3,054	2,649.57	92.80
	..	Kandi	..	Independent	..	120	Pair	1,209	919.63	Pair	..	6	1.28	10.76
	..	Jangipur	..	Independent	..	24	Pair	1,969	2,395.42	..	..	..	..	..
	..	Lalbagh	..	Independent	..	5	Pair	545	694.60	..	..	..	..	..
	..		..	Total	..	200	Pair	1,419	1,369.26	Pair	..	782	676.40	30.12
All combined				..	..	417	Pair	2,155	2,297.10	Pair	..	387	333.08	24.80



Table 5-2—*concd.*

Name of—		Type of industry.	Number of establishments surveyed.	Principal finished products.						Other products.
District.	Subdivision.			Finished bangles.		Semi-finished bangles.		Average value. (Rs.) (10)	Average value. (Rs.) (11)	
				Unit.	Average quantity.	Unit.	Average quantity.			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)		
Bankura ..	Sadar ..	Auxiliary	77	Pair	1,783	*	Pair	406	*	
	Bahnupur ..	Auxiliary	68	Pair	1,788	*	Pair	1,860	*	
	Total		145	Pair	1,785	*	Pair	1,088	*	
24-Parganas	Bongaon ..	Auxiliary	3	Pair	5,367	*	..	..	..	
	Total		3	Pair	5,367	*	..	..	..	
Nadia ..	Sadar ..	Auxiliary	58	Pair	1,034	*	Pair	1,498	*	
	Ranaghat ..	Auxiliary	4	Pair	1,475	*	Pair	250	*	
	Total		62	Pair	1,062	*	Pair	1,417	*	
Murshidabad	Sadar ..	Auxiliary	81	Pair	1,465	*	Pair	3,986	*	
	Kandi ..	Auxiliary	30	Pair	1,266	*	Pair	142	*	
	Lalbagh ..	Auxiliary	1	Pair	864	*	..	..	..	
	Total		112	Pair	1,406	*	Pair	2,920	*	
		All combined	322	Pair	1,547	*	Pair	1,778	*	

\*Value not known.

## COST OF PRODUCTION

Table 6-1—Analysis of cost of production.

Name of—		Type of industry.	Number of establishment surveyed.	Average number of man-months worked by		Average annual cost per (Rs.) establishment on account of—						
District.	Subdivision.			Family labour. (5)	Hired labour. (6)	Hired. (7)	Casual. (8)	Total. (9)	Work done through others. (10)	Raw materials. (11)		
Bankura ..	(1)	(2)	(3)	(4)								
	Sadar ..	Independent ..	52	19.81	6.23	265.65	73.46	339.11	25.77	1,545.61		
	Bishnupur ..	Independent ..	67	18.16	2.18	101.04	49.03	150.07	225.90	1,919.26		
		Total ..	119	18.88	3.95	172.97	59.71	232.68	138.45	1,756.04		
24 Parganas ..		Bongaon ..	Independent ..	17	13.76	4.94	277.65	..	277.65	8.82	3,318.82	
		Total ..	17	13.76	4.94	277.65	..	277.65	8.82	3,318.82		
Nadia ..		Sadar ..	Independent ..	72	9.28	2.12	93.46	16.39	109.85	304.57	1,550.76	
		Ranaghat ..	Independent ..	9	13.00	3.11	206.67	105.22	311.89	83.33	2,731.19	
		Total ..	81	9.69	2.23	106.04	26.26	132.30	279.98	1,681.92		
Murshidabad ..		Sadar ..	Independent ..	51	15.47	..	..	..	..	355.22	3,091.39	
		Kandi ..	Independent ..	120	10.22	0.76	22.25	3.24	25.49	26.70	316.51	
		Jangipur ..	Independent ..	24	17.96	0.79	27.50	2.50	30.00	13.00	1,654.90	
		Lalbagh ..	Independent ..	5	6.40	..	..	..	..	..	494.00	
		Total ..	200	12.39	0.55	16.65	2.24	18.89	108.16	1,187.35		
		All combined ..	417	13.77	2.03	89.26	23.22	112.48	146.13	1,532.60		

Table 8.1—contd.

Name of—		Type of industry.	Number of establishments surveyed.	Average annual cost per (Rs.) establishment on account of—						
District.	Subdivision.			Packing materials.	Fuels and light.	Rent.	Interest.	Repairing charges	Total.	
(1)	(2)	(3)	(4)	(12)	(13)	(14)	(15)	(16)	(17)	
Bankura ..	.. Sadar ..	.. Independent	52	2.92	41.60	14.77	0.08	1.27	1,971.13	
	Bishnupur	.. Independent	67	3.91	7.94	6.28	15.67	16.93	2,346.06	
	Total		119	3.48	22.65	9.99	8.86	10.08	2,128.23	
24 Parganas	.. Bongaon	.. Independent	17	6.94	10.54	3.85	1.39	8.53	3,636.54	
	Total		17	6.94	10.54	3.85	1.39	8.53	3,636.54	
Nadia ..	.. Sadar ..	.. Independent	72	2.83	3.05	7.69	1.38	3.75	1,983.88	
	Ranaghat	.. Independent	9	19.89	13.78	26.55	9.10	5.00	3,200.73	
	Total		81	4.73	4.24	9.79	2.24	3.89	2,119.09	
Murshidabad	.. Sadar ..	.. Independent	51	2.14	3.84	0.25	10.47	4.33	3,467.64	
	Kandi ..	.. Independent	120	1.61	23.88	0.43	2.16	3.38	400.16	
	Jangipur	.. Independent	24	8.00	31.17	..	8.30	7.29	1,752.26	
	Lalbagh ..	.. Independent	5	2.20	5.00	..	..	0.60	431.80	
	Total		200	2.53	19.17	0.33	4.96	4.02	1,345.41	
All combined			417	3.41	16.91	5.06	5.40	5.91	1,327.90	

Table 6.1—*contd.*

Name of—		Type of industry.	Number of estab- lishments surveyed.	Average number of man months worked by		Average annual cost (Rs.) per establishment on account of—				
District.	Subdivision.			Family labour.	Hired labour.	Outside labour		Work done through others.		Raw materials.
(1)	(2)	(3)	(4)	(5)	(6)	Hired. (7)	Casual. (8)	Total. (9)	(10)	(11)
Bankura	Sadar	Auxiliary	77	15.13	0.51	15.27	..	15.27	..	115.32
	Bishnupur	Auxiliary	68	12.35	..	..	..	..	..	9.07
	Total		145	13.83	0.27	8.11	..	8.11	..	65.50
24 Pargana	Bongaon	Auxiliary	3	12.00	..	..	..	..	..	21.67
	Total		3	12.00	..	..	..	..	..	21.67
Nadia	Sadar	Auxiliary	58	6.31	..	..	..	..	2.24	11.22
	Ranaghat	Auxiliary	4	11.00	..	..	..	..	..	23.00
	Total		62	6.61	..	..	..	..	2.10	11.98
Murshidabad	Sadar	Auxiliary	81	14.40	..	..	..	..	..	15.55
	Kandi	Auxiliary	30	9.13	..	..	..	..	..	38.06
	Lalbagh	Auxiliary	1	9.00	..	..	..	..	..	10.00
	Total		112	12.94	..	..	..	..	..	21.53
	All combined		322	12.11	0.12	3.65	..	3.65	0.40	39.49

Table 6.1—*concl'd.*

Name of—		Type of industry.	Average annual cost (Rs.) per establishment on account of—						
District.	Subdivision.		Number of establishments surveyed.	Packing materials.	Fuels and light.	Rent.	Interest.	Repairing charges.	Total.
(1)	(2)	(3)	(4)	(12)	(13)	(14)	(15)	(16)	(17)
Bankura	Sadar	..	77	0.01	27.20	1.32	..	0.57	159.69
	Bishrupur	..	68	0.03	3.41	1.21	1.24	10.81	25.77
	Total	..	145	0.02	16.04	1.27	0.58	5.37	96.89
24 Parganas	Bongaon	..	3	..	12.67	1.12	0.07	32.66	68.19
	Total	..	3	..	12.67	1.12	0.07	32.66	68.19
Nadia	Sadar	..	58	0.02	0.47	0.47	0.38	2.91	17.71
	Ranaghat	..	4	..	..	..	..	..	23.00
	Total	..	62	0.02	0.44	0.44	0.35	2.72	18.05
Murshidabad	Sadar	..	81	..	1.42	0.01	0.03	4.68	21.74
	Kandi	..	30	0.03	18.47	0.17	1.59	3.10	61.42
	Lalbagh	..	1	..	11.00	..	..	1.00	22.00
	Total	..	112	0.01	6.08	0.05	0.48	4.22	32.37
All combined			322	0.02	9.54	0.68	0.50	4.72	59.00

**Table 6-2—Cost of production expressed in terms of value of production.**

District.	Name of—		Type of industry.	Number of establishments surveyed.	Average value of production and work done (Rs.)	Average cost of production and work done (Rs.)	Cost per rupee of production for—		
	District.	Subdivision.					Outside labour.	Work done through others.	Raw materials
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
Bankura	..	Sadar	..	52	3,107.19	1,971.13	0.11	0.01	0.50
	..	Bishnupur	..	67	3,361.66	2,346.06	0.04	0.07	0.57
	..	Total	..	119	3,250.46	2,182.23	0.07	0.04	0.54
24 Parganas	..	Bongaon	..	17	4,590.23	3,636.54	0.06	0.00	0.73
	..	Total	..	17	4,590.23	3,636.54	0.06	0.00	0.73
Medinipur	..	Sadar	..	72	2,911.53	1,983.88	0.04	0.11	0.53
	..	Ranaghat	..	9	4,413.00	3,200.73	0.07	0.02	0.62
	..	Total	..	81	3,078.36	2,119.09	0.04	0.09	0.55
Murshidabad	..	Sadar	..	51	4,832.35	3,467.64	..	0.08	0.64
	..	Kandi	..	120	950.21	400.16	0.03	0.03	0.33
	..	Jangipur	..	24	2,395.42	1,752.26	0.01	0.01	0.69
	..	Lalbagh	..	5	694.60	431.80	..	..	0.62
	..	Total	..	200	2,107.19	1,345.41	0.01	0.05	0.57
All combined			..	417	2,723.32	1,827.90	0.04	0.05	0.56

Table 8-2—cont'd.

Name of—		Type of industry.	Cost per rupee of production for—						
District.	Subdivision.		Number of establishments surveyed. (4)	Packing materials. (10)	Fuels and light. (11)	Rent. (12)	Interest. Repairing charges. (13) (14) (15)	Total	
Bankura	(1)	(2)							
	.. Sedar	.. Independent	..	52	0.00	0.01	0.00	0.00	0.63
	Bishnupur	.. Independent	..	67	0.00	0.00	0.00	0.01	0.70
	Total	Total	..	119	0.00	0.01	0.00	0.00	0.67
Bakarganas	.. Bongaon	.. Independent	..	17	0.00	0.00	0.00	0.00	0.79
	Total	Total	..	17	0.00	0.00	0.00	0.00	0.79
Nadia	.. Sedar	.. Independent	..	72	0.00	0.00	0.00	0.00	0.68
	Ranaghat	.. Independent	..	9	0.01	0.00	0.01	0.00	0.73
	Total	Total	..	81	0.00	0.00	0.01	0.00	0.69
Murshidabad	.. Sedar	.. Independent	..	51	0.00	0.00	0.00	0.00	0.72
	Kandi	.. Independent	..	120	0.00	0.03	0.00	0.00	0.42
	Jangipur	.. Independent	..	24	0.00	0.02	..	0.00	0.73
	Laibagh	.. Independent	..	5	0.00	0.00	..	0.00	0.62
	Total	Total	..	200	0.00	0.01	0.00	0.00	0.64
All combined			..	417	0.00	0.01	0.00	0.00	0.67

Table 6.2—*concd.*

District.	Name of—		Type of industry.	Number of establishments surveyed.	Average value of production and work done. (Rs.)	Average cost of production and work done. (Rs.)	Cost per rupee of production for—				
	Subdivision.	(1)					(2)	(3)	(4)	(5)	(6)
Bankura	..	Sadar	.. Auxiliary	77	830.66	159.69	..	..	..	..	..
	..	Bishanpur	.. Auxiliary	68	554.09	25.77	..	..	..	..	..
	..	Total		145	700.96	96.89	..	..	..	..	..
24 Parganas	..	Bongaon	.. Auxiliary	3	1,126.67	68.19	..	..	..	..	..
	..	Total		3	1,126.67	68.19	..	..	..	..	..
	..										
Nadia	..	Sadar	.. Auxiliary	58	397.24	17.71	..	..	..	..	..
	..	Ranaghat	.. Auxiliary	4	477.50	23.00	..	..	..	..	..
	..	Total		62	402.42	18.05	..	..	..	..	..
Murshidabad	..	Sadar	.. Auxiliary	81	752.31	21.74	..	..	..	..	..
	..	Kandi	.. Auxiliary	30	378.37	61.42	..	..	..	..	..
	..	Lalbagh	.. Auxiliary	1	252.00	22.00	..	..	..	..	..
..	Total		112	647.68	32.37	..	..	..	..	..	
..	All combined		322	628.91	59.00	..	..	..	..	..	



Table 6.2 — *cont'd.*

District.	Name of—		Type of industry.	Number of establishments surveyed.	Cost per rupee of production for—				
	(1)	(2)			Packing materials.	Fuels and light.	Rent.	Interest.	Re-pairing charges.
			(3)	(4)	(10)	(11)	(12)	(13)	(14)
									(15)
Bankura	.. Sadar	..	Auxiliary	77	..	..	..	..	..
	Bishnupur	..	Auxiliary	68	..	..	..	..	..
	Total	..		145	..	..	..	..	..
24 Parganas	.. Boongson	..	Auxiliary	3	..	..	..	..	..
	Total	..		3	..	..	..	..	..
Nadia	.. Sadar	..	Auxiliary	58	..	..	..	..	..
	Ranaghat	..	Auxiliary	4	..	..	..	..	..
	Total	..		62	..	..	..	..	..
Murshidabad	.. Sadar	..	Auxiliary	81	..	..	..	..	..
	Kandi	..	Auxiliary	30	..	..	..	..	..
	Lalbagh	..	Auxiliary	1	..	..	..	..	..
	Total	..		112	..	..	..	..	..
	All combined	..		322	..	..	..	..	..

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[Name of raw material—Conch-shell]

District.	Name of—	Subdivision.	Type of industry.	Number of establishments surveyed.	Principal raw materials consumed during the year.					Sources of supply of principal raw materials (P.C.).			
					Unit.	Average quantity.	Local market. (P.C.).	Outside. (P.C.).	Market.	Co-operative.	Mahe- jan.	Dadan- dar (Benga- li).	Dadan- dar (Non- Benga- li).
(1)	(2)		(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
Bankura	..	Sadar	Independent	52	Pair	227	..	100-00	100-00	..	..	..	..
	..	Bishnupur	Independent	67	Pair	336	25-36	74-64	75-43	20-43	4-04	..	..
	..	Total		119	Pair	401	19-08	80-92	81-55	15-41	3-04	..	..
Bardhaman	..	Bongson	Independent	17	Pair	23	100-00	..	..	..	100-00	..	..
	..	Total		17	Pair	23	100-00	..	..	..	100-00	..	..
Medinipur	..	Sadar	Independent	72	Pair	357	42-78	57-22	49-40	37-63	12-97	..	..
	..	Ranaghat	Independent	9	Pair	43	..	100-00	100-00	..	..	..	..
	..	Total		81	Pair	322	42-14	57-86	50-14	37-08	12-78	..	..
Murshidabad	..	Sadar	Independent	51	Pair	772	27-62	72-38	81-75	11-95	6-30	..	..
	..	Kandi	Independent	120	Pair	10	15-32	84-68	100-00	..	..	..	..
	..	Jangipur	Independent	24	..	..	..	..	..	..	..	..	..
	..	Labagh	Independent	5	..	..	..	..	..	..	..	..	..
..	..	Total		200	Pair	203	27-24	72-76	82-30	11-59	6-11	..	..
..	..	All combined		417	Pair	275	27-49	72-51	74-40	18-93	6-67	..	..

**Table 7.1—*contd.***  
**[Name of raw materials—Semi-finished bangles and cut pieces of conch-shell]**

Name of—		Type of industry.	Number of establishments surveyed.	Principal raw materials consumed during the year.			Sources of supply of principal raw materials.				
District.	Subdivision.			Average value.	Purchased from.		Market.	Co-opera- tive.	Mahajan. (Bengali).	Dedandar (Non-Bengali).	Dedandar (Bengali).
					(Rs.) (5)	(P.C.) (6)					
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
Bankura	Sadar	Independent ..	52	580.77	40.37	59.63	100.00	..	..	..	..
	Bishnupur	Independent ..	67	44.82	89.21	10.79	92.01	..	7.99	..	..
	Total	..	119	279.01	44.79	55.21	99.28	..	0.72	..	..
24-Parganas	Bongaon	Independent ..	17	3,198.82	100.00	..	..	..	100.00	..	..
	Total	..	17	3,198.82	100.00	..	..	..	100.00	..	..
Nadia	Sadar	Independent ..	72	217.07	19.14	80.86	19.21	..	80.79	..	..
	Ranaghat	Independent ..	9	2,548.89	43.11	56.89	100.00	..	..	..	..
	Total	..	81	476.16	33.40	66.60	67.26	..	32.74	..	..
Murshidabad	Sadar	Independent ..	51	874.47	97.35	2.65	98.46	..	1.54	..	..
	Kandi	Independent ..	120	223.80	79.50	20.50	97.33	2.67	..	..	..
	Jangipur	Independent ..	24	1,577.42	14.06	85.94	98.72	..	1.28	..	..
	Lalbagh	Independent ..	5	415.20	39.74	60.26	100.00	..	..	..	..
	Total	..	200	556.94	63.67	36.33	98.30	0.65	1.05	..	..
All combined		..	417	569.64	64.43	35.57	70.90	0.30	28.80	..	..

Table 7. 2.—Distance of usual markets of raw materials and types of transport used for carrying goods from markets.

District.	Name of— Sub-division.	Type of industry.	No. of establi- shments surveyed.	Percentage of usual markets for purchase of raw materials at a distance (mile) of					
				•Nil	Up to 1 and up to and up to	Above 1 and up to and up to	Above 3 and up to and up to	Above 5 and up to and up to	Above 10 and up to and up to
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Bankura	Sadar	Independent	..	52	9.72	28.39	9.72	..	..
		Independent	..	87	..	30.00	1.43	..	5.71
	Bishnupur	..	..	119	4.93	28.17	5.03	..	2.82
	Total	..	..	17	94.12	..	..	..	..
24 Parganas	Bongson	Independent	..	17	94.12	..	..	..	..
		Total	..	17	94.12	..	..	..	..
	Sadar	Independent	..	72	..	40.52	4.31	10.36	1.72
		Independent	..	9	..	..	23.08	7.69	7.69
	Ranaghat	..	..	81	..	36.43	6.20	15.60	2.33
	Total	..	..	..	..	..	..	..	..
Murshidabad	Sadar	Independent	..	51	..	63.64	..	..	1.52
		Independent	..	120	..	74.42	3.10	0.77	1.55
	Kandi	..	..	24	..	20.83	29.17	20.83	..
	Jangipur	..	..	5	16.67	16.67	..	..	..
	Lalbagh.	..	..	200	0.40	59.84	7.23	4.43	1.20
	Total	..	..	417	4.47	43.95	6.33	5.77	1.12
All combined	..	..	..	..	..	..	..	..	..
		..	..	..	..	..	..	..	..

District.	Name of—		Type of industry.	No. of establishments surveyed.	Percentage of usual markets for purchase of raw materials at a distance (mile) of.				Percentage of establishments using transport for carrying raw material from usual markets.		
	Subdivision.	(1)			(2)	(3)	(4)	(5)	(6)	(7)	(8)
Bankura	Sadar	Independent	..	52	30.56	8.33	13.28	5.77	..	19.23	26.82
		Independent	..	67	1.43	5.71	55.72	4.48	..	43.28	19.41
		Total	..	119	16.20	7.04	35.21	5.04	..	32.47	22.69
	Bongaon	Independent	..	17	5.88	..	..	..	..	..	..
Total		..	17	5.88	..	..	..	..	..	..	
Nadia	Sadar	Independent	..	72	0.86	4.31	13.80	11.11	2.78	5.56	25.00
		Independent	..	9	13.38	46.16	..	44.45	..	33.33	11.11
		Total	..	81	2.33	8.53	12.40	14.81	2.47	8.64	23.46
	Murshidabad	Sadar	Independent	..	51	1.51	..	30.30	1.96	..	..
Independent			..	120	5.43	0.77	10.08	4.16	..	5.00	4.17
Independent			..	24	..	29.17	..	..	..	..	34.17
Lalbagh		Independent	..	5	66.66	..	..	60.00	..	..	20.00
	Total	..	200	4.82	6.03	13.25	4.80	..	3.00	19.50	
		All combined	..	417	7.26	6.71	18.43	6.72	0.48	12.47	20.36

Note.—An establishment may have one or more usual markets for purchase of raw materials.  
 \* Purchases are made in the manufacturers' premises.

Table 7-3—Cash and credit purchase of raw materials.

District.	Name of—		Type of industry.	No. of establishments surveyed.	Average value of raw materials consumed per establishment.			
	Subdivision.				Total.	Cash purchase.	Credit purchase.	Per cent. of credit to total.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
Bankura	Sadar	Independent	..	52	1,545.61	1,545.61	..	..
	Bishnupur	Independent	..	67	1,919.36	1,888.22	31.14	1.62
	Total		..	119	1,756.04	1,738.61	17.53	1.00
24 Parganas	Bongaon	Independent	..	17	3,318.82	30.53	3,288.29	99.08
	Total		..	17	3,318.82	30.53	3,288.29	99.08
Nadia	Sadar	Independent	..	72	1,550.76	1,487.72	63.04	4.07
	Ranaghat	Independent	..	9	2,781.19	2,731.19	..	..
	Total		..	81	1,681.92	1,625.88	56.04	3.33
Murshidabad	Sadar	Independent	..	51	3,091.39	3,010.57	80.82	2.61
	Kandi	Independent	..	120	316.51	312.39	4.12	1.30
	Jangipur	Independent	..	24	1,654.50	1,592.83	61.67	3.73
	Lalbagh	Independent	..	5	424.00	424.00	..	..
	Total		..	200	1,187.35	1,156.87	30.48	2.57
All combined				417	1,532.60	1,368.04	164.56	10.74

<b>Bakura</b>	.. Sedar	..	..	11	11.00	11.00	..	..
	.. Bishnupur	..	..	68	9.07	9.07	..	..
	Total	..	..	145	65.60	65.60	..	..
<b>24-Parganas</b>	.. Bongaon	..	..	3	21.67	21.67	..	..
	Total	..	..	3	21.67	21.67	..	..
<b>Nadia</b>	.. Sedar	..	..	58	11.22	11.22	..	..
	.. Ranaghat	..	..	4	23.00	23.00	..	..
	Total	..	..	62	11.98	11.98	..	..
<b>Murshidabad</b>	.. Sedar	..	..	81	15.55	15.55	..	..
	.. Kandi	..	..	30	38.06	37.93	0.13	0.34
	.. Lalbagh	..	..	1	10.00	10.00	..	..
	Total	..	..	112	21.53	21.50	0.03	0.14
All combined			..	322	39.49	39.48	0.01	0.03

Table 7-4.—Agency for sale of finished products.

Name of—		Type of industry.	Number of establishments surveyed.	Average annual value of sale per establishment. (Rs.)	Percentage of sale through—					
District.	Subdivision.				Own retail.	Dadandar (Bengali).	Own retail.	Dadandar (Bengali).	Co-operative.	Mahajan.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Bankura	Sadar	Independent	..	52	3,003.06	40.15	59.85	..	..	..
	Bishnupur	Independent	..	67	3,220.76	74.06	26.04	..	..	..
	Total		..	119	3,130.70	59.85	40.15	..	..	..
24-Parganas	Bongaon	Independent	..	17	4,554.00	2.83	97.17	..	..	..
	Total		..	17	4,554.00	2.83	97.17	..	..	..
Nadia	Sadar	Independent	..	72	2,881.61	60.48	37.94	..	..	1.38
	Ranaghat	Independent	..	9	4,405.56	32.43	67.57	..	..	..
	Total		..	81	3,050.94	56.15	42.69	..	..	1.16
Murshidabad	Sadar	Independent	..	51	5,038.69	89.78	10.22	..	..	..
	Kandi	Independent	..	120	922.91	76.94	23.06	..	..	..
	Jangipar	Independent	..	24	2,472.42	3.88	96.12	..	..	..
	Lalbagh	Independent	..	5	681.00	7.28	92.72	..	..	..
	Total		..	200	2,152.32	73.98	26.03	..	..	..
All combined		..	..	417	2,703.98	60.52	39.23	..	..	0.29



Table 7.5—Distance of usual markets for sale of finished products and types of transport used for carrying them to markets.

District.	Name of—		Type of industry.	Number of establishments surveyed.	P. C. of establishments which sell by hawking.	Percentage of usual markets for sale of finished goods at a distance (mile) of—				
	District.	Subdivision.				Nil	Up to 1.	Above 1 and up to 3.	Above 3 and up to 5.	Above 5 and up to 10.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	
Bankura	Sadar	Independent	..	52	..	3.08	16.38	21.53	9.23	3.08
	Bishnupur	Independent	..	67	..	..	13.79	1.48	3.45	2.96
	Total	..	..	119	..	0.75	14.18	6.34	4.85	2.99
24 Parganas	Bongaon	Independent	..	17	..	76.47	5.88	..	5.88	11.77
	Total	..	..	17	..	76.47	5.88	..	5.88	11.77
	Nadia	Sadar	Independent	..	72	..	..	10.13	1.90	4.43
Murshidabad	Ranaghat	Independent	..	9	44.44	..	27.27	36.37	9.09	9.09
	Total	..	..	81	4.84	..	11.24	4.14	4.73	8.88
	Sadar	Independent	..	51	3.92	0.76	6.87	0.76	1.53	6.87
Murshidabad	Kandi	Independent	..	120	6.07	13.94	21.77	4.71	2.94	5.29
	Jangipur	Independent	..	24	54.17	..	6.38	..	38.80	55.32
	Lalbagh	Independent	..	5	..	..	11.11	44.45	..	33.83
Murshidabad	Total	..	..	200	11.50	6.44	14.01	3.64	7.00	13.17
	All combined	..	..	417	6.47	4.69	13.32	4.56	5.79	8.88

Table 7.5—*contd.*

Name of—		Type of industry.	Number of establishments surveyed.	Percentage of usual markets for sale of finished goods at distance (mile) of—					Percentage of establishments using transport for carrying finished goods to usual markets.		
District.	Subdivision.			Above 10 and up to 20.	Above 20 and up to 50.	Above 50 and up to 100.	Above 100.	Bus.	Train.	Using more than one type of transport.	
(1)	(2)	(3)	(4)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	
Bankura	Sadar Bishnupur	Independent	..	62	3.08	21.64	21.54	1.54	5.77	3.85	38.46
		Independent	..	67	16.75	38.95	11.82	12.80	2.99	53.22	23.88
		Total	..	119	13.43	33.21	14.18	10.07	4.20	32.77	30.25
24-Parganas	Bongaon	Independent	..	17	..	..	..	..	5.88	..	..
		Total	..	17	..	..	..	..	5.88	..	..
Nadia	Sadar Ranaghat	Independent	..	72	5.06	6.96	32.91	29.75	5.55	2.78	40.28
		Independent	..	9	9.09	9.09	..	..	33.33	44.48	11.11
		Total	..	81	5.33	7.10	30.77	27.81	8.64	7.41	37.04
Murshidabad	Sadar Kandi Jangipur Lalbagh	Independent	..	51	15.27	15.27	1.53	51.14	5.88	5.88	62.75
		Independent	..	120	15.88	20.00	16.47	..	3.33	19.17	9.17
		Independent	..	24	..	..	..	..	..	..	62.50
		Independent	..	6	..	..	..	11.11	20.00	..	20.00
		Total	..	200	13.17	15.13	8.40	19.04	4.00	13.00	29.50
		All combined	..	417	11.34	19.11	14.80	17.51	5.03	17.03	29.98

Note.—An establishment may have more than one or more usual markets for sale of finished products.  
 \*Sales are made in manufacturers' premises.

# GENERAL ECONOMIC CONDITION OF FAMILIES

Table 8-1—Size and family income by source.

Name of—		Type of industry.	Number of associated families in the establishments surveyed.	Average monthly income derived from (Rs.)—							Total.
District.	Subdivision.			Agricul- ture.	Industry.	Trade.	Profession.	Others.			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	
Bankura	..	Sadar	Independent	52	9.2	22.00	95.38	3.08	0.29	26.87	147.62
			Auxiliary	77	5.9	13.26	55.91	1.11	0.27	18.90	89.45
			Sub-total	129	7.2	16.78	71.82	1.91	0.28	22.11	112.90
	Bishnupur	Independent	67	5.5	13.05	84.63	1.64	0.74	18.61	118.67	
Auxiliary		68	3.4	2.47	45.42	1.40	0.74	13.31	63.24		
Sub-total		135	4.4	7.72	64.88	1.52	0.74	16.39	90.25		
		Total	264	5.8	12.15	68.27	1.71	0.52	18.67	101.32	
24-Parganas	..	Bongson	Independent	17	5.2	0.51	79.47	..	..	26.23	106.20
			Auxiliary	3	3.7	..	88.20	..	..	6.97	95.17
			Total	20	5.0	0.44	80.78	..	..	23.33	104.55
	Nadia	..	Sadar	Independent	72	3.7	8.94	77.44	6.23	2.67	24.64
Auxiliary				58	5.3	4.62	31.63	9.40	1.14	18.13	64.92
Sub-total				130	4.4	7.01	57.00	7.64	1.99	21.74	95.38
Ranaghat		Independent	9	4.9	6.41	101.07	..	6.94	16.44	130.86	
	Auxiliary	4	4.0	16.21	37.88	..	..	14.58	68.67		
	Sub-total	13	4.6	9.42	81.63	..	4.80	15.87	111.72		
		Total	143	4.4	7.23	59.24	6.94	2.24	21.21	96.86	

Table 8-1—*contd.*

Name of—		Type of industry.	No. of associated families in the establishments surveyed.	Average size of family.	Average monthly income derived from (Rs.)—					
District.	Subdivision.				Agricul- ture.	Industry.	Trade.	Profes- sion.	Others.	Total.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Murshidabad	Sadar	Independent	51	6.6	5.32	116.97	3.06	1.22	22.17	148.74
		Auxiliary	81	5.8	3.29	61.82	1.35	..	9.44	75.90
		Sub-total	132	6.1	4.07	83.13	2.01	0.47	14.36	104.04
Kandi	..	Independent	120	5.0	24.93	45.90	1.18	0.24	22.57	94.82
		Auxiliary	30	4.3	17.44	26.41	0.42	2.51	20.94	67.92
		Sub-total	150	4.9	23.47	42.00	1.03	0.70	22.24	89.44
Jangipur	..	Independent	24	5.8	10.17	55.92	3.82	4.90	24.32	99.13
		Sub-total	24	5.8	10.17	55.92	3.82	4.90	24.32	99.13
Lalbagh	..	Independent	5	4.8	45.89	21.90	..	6.60	25.10	99.49
		Auxiliary	1	2.0	13.75	19.17	..	..	..	32.92
		Sub-total	6	4.3	40.53	21.44	..	5.60	20.92	88.39
		Total	312	5.5	14.57	60.08	1.64	1.02	19.04	96.35
		Grand total	739	5.4	11.80	63.40	2.65	1.05	19.44	98.44

Table 8-2—Percentage of families deriving 50 per cent. or more income from different sources.

Name of—		Type of industry.	No. of associated families in the establishments surveyed.	Percentage of families deriving 50 per cent. or more income from—						
District.	Subdivision.			Agriculture.	Industry.	Trade.	Profession.	Others.		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)		
Bankura	.. Sadar	Independent	..	52	5.77	76.92	1.92	..	5.77	
		Auxiliary	..	77	5.19	75.32	..	..	7.79	
		Sub-total	..	129	5.43	75.97	0.78	..	6.98	
	Bishnupur	Independent	..	67	5.97	77.61	..	..	8.96	
		Auxiliary	..	68	1.47	77.94	1.47	1.47	10.29	
Sub-total		..	135	3.70	77.78	0.74	0.74	9.63		
		Total	..	264	4.55	76.89	0.76	0.38	8.33	
24-Parganas	.. Bongaon	Independent	..	17	..	94.12	..	..	5.88	
		Auxiliary	..	3	..	100.00	..	..	..	
		Total	..	20	..	95.00	..	..	5.00	
	Medinipur	.. Sadar	Independent	..	72	5.56	56.94	2.78	2.78	11.11
			Auxiliary	..	58	1.72	43.10	10.34	..	13.79
Sub-total			..	130	3.85	50.77	6.15	1.54	12.31	
Ranaghat		Independent	..	9	..	100.00	..	..	..	
		Auxiliary	..	4	..	50.00	..	..	..	
	Sub-total	..	13	..	84.82	..	..	..		
		Total	..	143	3.50	53.85	5.59	1.40	11.19	

Table 9.2—*concl.*

District.	Name of—		Type of industry.	No. of associated families in the establishments surveyed.	Percentage of families deriving 50 per cent. or more income from—				
	Subdivision.				Agriculture.	Industry.	Trade.	Profession.	Others.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
Murshidabad	..	Sadar	..	51	..	82.35	..	1.96	13.73
	..	Auxiliary	..	81	..	87.65	2.47	..	6.17
	..	Sub-total	..	132	..	85.61	1.52	0.76	9.09
Kandi	..	Independent	..	120	10.83	40.83	0.83	..	10.83
	..	Auxiliary	..	30	10.00	30.00	..	3.33	20.00
	..	Sub-total	..	150	10.67	38.67	0.67	0.67	12.67
Jangipur	..	Independent	..	24	..	70.83	..	4.17	4.17
	..	Sub-total	..	24	..	70.83	..	4.17	4.17
Lalbagh	..	Independent	..	5	20.00	20.00	..	..	20.00
	..	Auxiliary	..	1	..	100.00	..	..	..
	..	Sub-total	..	6	16.67	33.33	..	..	16.67
..	Total		..	312	5.45	60.90	0.96	0.96	10.58
..	Grand total		..	739	6.09	64.68	1.76	0.81	9.74

Table 8-3—Land for cultivation.

Name of—		Type of industry	Number of es- tablish- ments surveyed.	Average area of land per family (in acres).		Families having no land for cultivation.		Families having land for cul- tivation.		Average area of cultivated land per family having land for cultiva- tion (in acres.)					
District.	Subdivision.			(1)	(2)	(3)	(4)	(5)	(6)		(7)	(8)	(9)	(10)	(11)
Bankura	.. Sedar	Independent	..	52	1.49	0.88	40	76.92	12	23.08	3.81				
		Auxiliary	..	77	0.76	0.65	60	77.92	17	22.08	2.95				
		Sub-total	..	129	1.05	0.74	100	77.52	29	22.48	3.31				
			..												
	Bishnupur	Independent	..	67	1.09	0.83	55	82.09	12	17.91	4.65				
		Auxiliary	..	68	0.23	0.08	66	97.06	2	2.94	2.71				
		Sub-total	..	135	0.66	0.45	121	89.63	14	10.37	4.37				
			..												
		Total	..	264	0.85	0.59	221	83.71	43	16.29	3.66				
24 Parganas	.. Bongaon	Independent	..	17	0.18	..	17	100.00	..	..	..				
		Auxiliary	..	3	..	..	3	100.00	..	..	..				
			..												
		Total	..	20	0.15	..	20	100.00	..	..	..				

Table 3.3—*conold.*

District.	Name of—		Type of industry.	Number of associated families in the establishments surveyed.	Average area of land per family (in acres).		Families having no land for cultivation.		Families having land for cultivation.		Average area of cultivated land per family having land for cultivation (in acres.) (11)
	Subdivision.	(2)			Owned.	Possessed.	Number	Per cent.	Number	Per cent.	
Nadia	(1)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	
	..	Sadar	..	Independent	72	1.51	0.31	55	76.39	17	23.61
	..	Auxiliary	..	Auxiliary	58	0.61	0.27	53	91.38	5	8.62
	..	Sub-total	..	Sub-total	130	1.11	0.40	108	83.08	22	16.92
Ranaghat	..	Independent	..	Independent	9	0.87	0.41	5	55.56	4	44.44
	..	Auxiliary	..	Auxiliary	4	0.70	1.38	2	50.00	2	50.00
	..	Sub-total	..	Sub-total	13	0.82	0.71	7	53.85	6	46.15
	..	Total	..	Total	143	1.08	0.43	115	80.42	28	19.58
Murehdabad	..	Sadar	..	Independent	51	1.60	0.24	43	88.24	6	11.76
	..	Auxiliary	..	Auxiliary	81	0.52	0.04	76	93.83	5	6.17
	..	Sub-total	..	Sub-total	132	0.94	0.12	121	91.67	11	8.33
	..	Sub-total	..	Sub-total	120	1.56	1.40	21	17.50	99	82.50
Kandi	..	Independent	..	Independent	30	1.28	0.29	10	33.33	20	66.67
	..	Auxiliary	..	Auxiliary	160	1.49	1.69	81	50.67	149	99.00
	..	Sub-total	..	Sub-total	190	1.49	1.69	81	40.67	149	79.00
	..	Sub-total	..	Sub-total	190	1.49	1.69	81	40.67	149	79.00



Jangipur	.. Independent	..	24	1.11	0.25	22	91.67	2	8.33	3.00
	Sub-total	..	24	1.11	0.25	22	91.67	2	8.33	3.00
Lalbagh	.. Independent	..	5	3.27	2.20	4	80.00	1	20.00	11.66
	Auxiliary	..	1	1.66	..	1	100.00	..	..	..
	Sub-total	..	6	3.00	1.83	5	83.33	1	16.67	11.00
	Total	..	312	1.26	0.77	179	57.37	133	42.63	1.81
Grand total		..	738	1.65	0.62	635	72.40	204	27.60	2.25

Table 8-4.—Family expenditure.

Name of—		Type of industry.	Number of associated families in the establishments surveyed.	Percentage of total expenditure on—				
District.	Subdivision.			Food.	Clothing.	Fuel and light.	Rent.	Miscellaneous.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Bankura	Sadar	Independent	52	71.14	5.77	3.05	0.24	19.80
		Auxiliary	77	75.35	6.22	3.02	0.28	15.13
		Sub-total	129	73.14	5.98	3.04	0.26	17.58
	Bishnupur	Independent	67	62.52	4.66	4.89	0.61	27.32
24 Parganas	Bongaon	Auxiliary	68	66.74	4.51	6.35	0.70	21.90
		Sub-total	135	63.93	4.61	5.40	0.64	25.42
		Total	264	69.05	5.39	4.08	0.43	21.06
		Independent	17	69.83	5.75	5.81	0.19	18.42
Nadia	Sadar	Auxiliary	3	72.84	4.43	3.62	0.25	18.86
		Total	20	70.23	5.58	5.52	0.19	18.48
		Independent	72	62.10	5.91	4.06	0.42	27.61
		Auxiliary	58	71.87	5.49	3.49	0.24	18.91
Ranaghat	Sadar	Sub-total	130	65.36	5.77	3.87	0.36	24.64
		Independent	9	52.59	4.66	1.94	1.17	39.64
		Auxiliary	4	73.25	4.60	1.75	0.91	20.19
		Sub-total	13	56.59	4.65	1.90	0.99	35.87
Nadia	Ranaghat	Total	143	64.39	5.64	3.65	0.43	25.89
		Independent	72	62.10	5.91	4.06	0.42	27.61
		Auxiliary	58	71.87	5.49	3.49	0.24	18.91
		Sub-total	130	65.36	5.77	3.87	0.36	24.64

Murshidabad	..	Sadar	..	Independent	..	51	62.44	6.36	3.84	0.39	26.97
	..	Auxiliary	..	81	72.72	4.91	4.81	0.42	17.14		
	..	Sub-total	..	132	67.74	5.61	4.34	0.40	21.91		
Kandi	..	Independent	..	120	60.71	5.30	3.72	0.25	30.02		
	..	Auxiliary	..	30	69.11	4.57	4.45	0.26	21.61		
	..	Sub-total	..	150	62.01	5.18	3.84	0.25	28.72		
Jangipur	..	Independent	..	24	72.91	4.63	3.34	0.42	18.70		
	..	Sub-total	..	24	72.91	4.63	3.34	0.42	18.70		
Lalbagh	..	Independent	..	5	50.08	4.85	2.84	0.27	41.96		
	..	Auxiliary	..	1	78.16	7.28	3.16	0.24	11.16		
	..	Sub-total	..	6	51.92	5.01	2.86	0.27	39.94		
..		Total	..	312	65.12	5.31	3.98	0.33	28.28		
				Grand total	..	739	66.63	5.40	4.01	0.38	23.58

# DIFFICULTIES AND OTHER MISCELLANEOUS INFORMATION

Table 9.1—Difficulties encountered by establishments.

Name of—		Type of industry.	Number of establishments surveyed.	Establishments experiencing difficulties on account of—						
District.	Subdivision.			Competition from Inland goods.		Finance.		Want of—		
				Number.	Per cent.	Number.	Per cent.	Number.	Per cent.	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	
Bankura	.. Sadar	Independent	..	52	..	35	67.31	24	46.15	
		Auxiliary	..	77	..	66	85.71	8	10.39	
		Sub-total	..	129	..	101	78.29	32	24.81	
	Bishnupur	Independent	..	67	1	1.49	41	61.19	63	94.03
		Auxiliary	..	68	..	39	57.35	50	73.53	
		Sub-total	..	135	1	0.74	80	59.26	113	83.70
		Total	..	204	1	0.38	181	68.56	145	54.92
24-Parganas	.. Bongsoan	Independent	..	17	..	10	58.82	1	5.88	
		Auxiliary	..	3	..	3	100.00	..	..	
		Total	..	20	..	13	65.00	1	5.00	
	Nadia	.. Sadar	Independent	..	72	67	93.06	18	25.00	55
Auxiliary			..	58	31	53.45	11	18.97	32	55.17
Sub-total			..	130	98	75.38	29	22.31	87	66.92
Ranaghat		Independent	..	9	4	44.44	8	88.89	9	100.00
		Auxiliary	..	4	4	100.00	4	100.00	4	100.00
		Sub-total	..	13	8	61.54	12	92.31	13	100.00
		Total	..	143	106	74.13	41	28.67	100	69.93

Murshidabad	..	Sadar	..	Independent	..	51	2	3-92	48	94-12	51	100-00
	..		..	Auxiliary	..	81	..	..	77	95-06	70	86-42
	..		..	Sub-total	..	132	2	1-52	125	94-70	121	91-67
<hr/>												
Kandi	..		..	Independent	..	120	116	96-67	88	73-33	117	97-50
	..		..	Auxiliary	..	30	28	93-33	25	83-33	25	83-33
	..		..	Sub-total	..	150	144	96-00	113	75-33	142	94-67
<hr/>												
Jangipur	..		..	Independent	..	24	9	37-50	10	41-67	21	87-50
	..		..	Sub-total	..	24	9	37-50	10	41-67	21	87-50
<hr/>												
Lalbagh	..		..	Independent	..	5	4	80-00	4	80-00	4	80-00
	..		..	Auxiliary	..	1	..	..	1	100-00	1	100-00
	..		..	Sub-total	..	6	4	66-67	5	83-33	5	83-33
<hr/>												
	..		..	Total	..	312	159	50-96	253	81-09	289	92-63
<hr/>												
	..		..	Grand total	..	739	266	35-99	488	66-04	535	72-40

TABLE 9.1—*contd.*

Name of—		Type of industry.	Number of estab- lishments surveyed.	Establishments experiencing difficulties on account of—									
District.	Subdivision.			Want of—									
				Accommodation.		Transport.		Marketing of products.		Improved machinery			
(1)	(2)	(3)	(4)	Number.	Per cent.	Number.	Per cent.	Number.	Per cent.	Number.	Per cent.	(17)	(18)
Bankura	Sadar	Independent	52	..	..	..	..	..	..	..	..	..	..
		Auxiliary	77	..	..	..	..	2	2.60	..	..	..	..
		Sub-total	129	..	..	..	..	2	1.55	..	..	..	..
	Bishnupur	Independent	67	..	..	..	..	4	5.97	1	1.49	..	..
		Auxiliary	68	..	..	..	..	..	..	2	2.94	..	..
		Sub-total	135	..	..	..	..	4	2.96	3	2.22	..	..
		Total	264	..	..	..	..	6	2.27	3	1.14	..	..
24-Parganas	Bongaon	Independent	17	..	..	..	..	..	..	..	..	..	..
		Auxiliary	3	..	..	..	..	..	..	..	..	..	..
		Total	20	..	..	..	..	..	..	..	..	..	..
Nadia	Sadar	Independent	72	..	..	1	1.39	38	52.78	1	1.39	..	..
		Auxiliary	58	..	..	1	1.72	8	13.79	7	12.07	..	..
		Sub-total	130	..	..	2	1.54	46	35.38	8	6.16	..	..
	Ranaghat	Independent	9	..	..	..	..	1	11.11	..	..	..	..
		Auxiliary	4	..	..	..	..	..	..	..	..	..	..
		Sub-total	13	..	..	..	..	1	7.69	..	..	..	..
		Total	143	..	..	2	1.40	47	32.87	8	5.59	..	..

Murahidabad	Sadar	..	Independent	..	51	..	..	..	..	20	19-75	..	..
		..	Auxiliary	..	81	..	..	..	..	16	19-75	..	..
		..	Sub-total	..	132	..	..	..	..	41	31-06	12	9-09
Kandi	..	Independent	..	120	6	5-00	..	..	..	72	60-00	7	5-31
	..	Auxiliary	..	30	2	6-67	..	..	..	15	50-00	..	..
	..	Sub-total	..	150	8	5-33	..	..	..	87	58-00	7	4-67
Jangipur	..	Independent	..	24	..	..	..	..	..	..	..	..	..
	..	Sub-total	..	24	..	..	..	..	..	..	..	..	..
Lalbagh	..	Independent	..	5	..	..	..	..	..	1	20-00	..	..
	..	Auxiliary	..	1	..	..	..	..	..	..	..	..	..
	..	Sub-total	..	6	..	..	..	..	..	1	16-67	..	..
Total		..	312	8	2-56	..	..	..	..	129	41-35	19	6-09
Grand total		..	739	8	1-08	2	0-27	..	..	182	24-63	30	4-06

TABLE 9-1—*contd.*

District.	Name of— Subdivision.	Type of industry.	Number of estab- lishments surveyed.	Establishments experiencing difficulties on account of—									
				Want of—						Ill remuneration.			
				Labour.		Publicity.		Demand.		Number.	Per cent.	Number.	Per cent.
(1)	(2)	(3)	(4)	(19)	(20)	(21)	(22)	(23)	(24)			(25)	(26)
Bankura ..	Sadar ..	Independent ..	52	..	..	..	..	..	..	..	..	..	..
		Auxiliary ..	77	..	..	..	..	..	..	..	..	..	..
		Sub-total ..	129	..	..	..	..	..	..	..	..	..	..
		Total ..	67	..	..	..	..	..	..	..	..	..	..
Bishnupur ..	..	Independent ..	67	..	..	..	..	..	..	..	..	..	..
		Auxiliary ..	68	2	2.94	..	..	10	14.71	3	4.41	3	4.41
		Sub-total ..	135	2	1.48	..	..	10	7.41	3	2.22	3	2.22
		Total ..	264	2	0.76	..	..	10	3.79	3	1.14	3	1.14
24-Parganas	Bongaon ..	Independent ..	17	..	..	..	..	7	41.18	..	..	..	..
		Auxiliary ..	3	..	..	..	..	..	..	..	..	..	..
		Sub-total ..	20	..	..	..	..	7	35.00	..	..	..	..
		Total ..	20	..	..	..	..	7	35.00	..	..	..	..
Nadia ..	Sadar ..	Independent ..	72	14	19.44	13	18.06	12	16.67	..	..	..	..
		Auxiliary ..	58	9	15.52	2	3.45	27	46.55	8	13.79	8	13.79
		Sub-total ..	130	23	17.69	15	11.54	39	30.00	8	6.15	8	6.15
		Total ..	130	23	17.69	15	11.54	39	30.00	8	6.15	8	6.15
Ranaghat ..	..	Independent ..	9	..	..	..	..	..	..	..	..	..	..
		Auxiliary ..	4	..	..	..	..	..	..	..	..	..	..
		Sub-total ..	13	..	..	..	..	..	..	..	..	..	..
		Total ..	143	23	16.08	15	10.49	39	27.27	8	5.59	8	5.59



Murshidabad	Sedar	..	Independent	..	61	..	..	..	..	1	1-96	..	..
	Auxiliary	..		..	81	..	..	..	..	..	..	..	..
	Sub-total	..		..	132	..	..	..	..	1	0-76	..	..
Kandi	Independent	..		..	120	7	5-83	..	..	43	35-83	..	..
	Auxiliary	..		..	30	..	..	..	..	7	23-33	..	..
	Sub-total	..		..	150	7	4-87	..	..	50	33-33	..	..
Jangipur	Independent	..		..	24	..	..	..	..	1	4-17	..	..
	Sub-total	..		..	24	..	..	..	..	1	4-17	..	..
Lalbagh	Independent	..		..	6	..	..	..	..	..	..	..	..
	Auxiliary	..		..	1	..	..	..	..	..	..	1	100-00
	Sub-total	..		..	6	..	..	..	..	..	..	1	16-87
Total		..		..	312	7	2-24	..	..	52	16-67	1	0-32
Grand total		..		..	739	32	4-33	15	2-03	108	14-61	12	1-62

Note.—An establishment may face difficulties from one or more sources.

Table 9-2.—Willingness to join Co-operative societies.

Name of—		Type of industry.	Number of establishments surveyed.	Establishments						
District.	Subdivision.			Not in favour of co-operative society.		In favour of co-operative societies.		Willing to join co-operative society.		
				No.	P. C.	Already joined co-operative society.	P. C.	Marketing society	P. C.	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	
Bankura	Sedar	Independent	..	52	1	1.92	..	..	11	21.15
		Auxiliary	..	77	..	..	..	..	7	9.09
		Sub-total	..	129	1	0.78	..	..	18	13.95
	Bishnupur	Independent	..	67	..	..	7	10.45	23	34.33
24-Parganas	Bougeon	Auxiliary	..	68	..	..	2	2.94	6	8.82
		Sub-total	..	135	..	..	9	6.67	29	21.48
		Total	..	264	1	0.38	9	3.41	47	17.80
	Nadia	Sedar	Independent	..	17	..	..	..	..	2
Auxiliary			..	3	..	..	..	..	..	..
Total			..	20	..	..	..	..	2	10.00
Ranaghat		Sedar	Independent	..	72	15	21.83	28	38.89	..
	Auxiliary		..	58	5	8.62	12	20.69	3	5.17
	Sub-total		..	130	20	15.38	40	30.77	3	2.31
	Total	Ranaghat	Independent	..	9	2	22.22	..	..	..
Auxiliary			..	4	..	..	..	..	..	..
Sub-total			..	13	2	15.38	..	..	..	..
Total		..	Independent	..	143	22	15.38	40	27.97	3
	Sub-total		..	..	..	..	..	..	..	..

Murshidabad	..	Sadar	..	..	Independent	..	51	7	13-71	1	1-96	32	62-75
				..	Auxiliary	..	81	5	6-17	2	2-47	64	79-01
				..	Sub-total	..	132	12	9-09	3	2-27	96	72-73
Kandi	..	..	..	..	Independent	..	120	30	25-00	12	10-00	4	3-83
				..	Auxiliary	..	30	10	33-33	..	..	1	3-33
				..	Sub-total	..	150	40	26-67	12	8-00	5	3-33
Jangipur	..	..	..	..	Independent	..	24	..	..	..	..	9	37-50
				..	Sub-total	..	24	..	..	..	..	9	37-50
Lalbagh	..	..	..	..	Independent	..	5	1	20-00	..	..	3	60-00
				..	Auxiliary	..	1	..	..	..	..	1	100-00
				..	Sub-total	..	6	1	16-67	..	..	4	66-57
	..	Total	..	312	53	16-99	15	4-81	114	36-54			
	..	Grand total	..	739	76	10-28	64	8-66	166	22-46			

Table 9-2—*contd.*

Name of—		Type of industry.	Establishments										
District.	Subdivision.		Number of establishments surveyed.		In favour of co-operative societies.			Willing to join.			Any society not specifically mentioned		
			Consumer society.		Credit society.		Multipurpose society.						
(1)	(2)	(3)	No. (11)	P. C. (12)	No. (13)	P. C. (14)	No. (15)	P. C. (16)	No. (17)	P. C. (18)			
Bankura	Sadar	Independent	52	..	3	5-77	29	55-77	8	15-38			
		Auxiliary	77	7	9-09	12	15-58	50	64-95	9	11-69		
		Sub-total	129	7	5-43	15	11-63	79	61-24	17	13-18		
	Bishnupur	Independent	67	1	1-49	5	7-46	40	59-70	..	..		
Auxiliary		68	..	..	5	7-35	60	88-24	..	..			
Sub-total		135	1	0-74	10	7-41	100	74-07	..	..			
		Total	264	8	3-03	25	9-47	179	67-80	17	6-44		
24-Parganas	Bongaon	Independent	17	..	13	76-47	..	..	2	11-76			
		Auxiliary	3	..	3	100-00	..	..	..	..			
		Total	20	..	16	80-00	..	..	2	10-00			
Nadia	Sadar	Independent	72	..	21	29-17	7	9-72	1	1-39			
		Auxiliary	58	..	28	48-28	10	17-24	..	..			
		Sub-total	130	..	49	37-69	17	13-08	1	0-77			
	Ranaghat	Independent	9	..	1	11-11	6	66-67	..	..			
Auxiliary		4	..	..	..	4	100-00	..	..				
Sub-total		13	..	1	7-69	10	76-92	..	..				
		Total	143	..	50	34-97	27	18-88	1	0-70			

<b>Murshidabad</b>	<b>Sadar</b>	..	Independent	..	51	..	..	..	14	27.45	..	..
		..	Auxiliary	..	81	..	..	1	1.23	9	11.11	..
		..	Sub-total	..	132	..	..	1	0.76	23	17.42	..
<b>Kandi</b>	..	Independent	..	120	1	0.83	..	..	72	60.00	1	0.83
	..	Auxiliary	..	30	..	..	..	..	19	63.33	..	..
	..	Sub-total	..	150	1	0.67	..	..	91	60.67	1	0.87
<b>Jangipur</b>	..	Independent	..	24	2	8.33	..	..	16	66.67	..	..
	..	Sub-total	..	24	2	8.33	..	..	16	66.67	..	..
<b>Lalbagh</b>	..	Independent	..	5	..	..	..	..	1	20.00	..	..
	..	Auxiliary	..	1	..	..	..	..	..	..	..	..
	..	Sub-total	..	6	..	..	..	..	1	16.67	..	..
<b>Total</b>		..		312	3	0.96	1	0.32	131	41.99	1	0.32
<b>Grand total</b>				739	11	1.49	92	12.45	337	45.60	21	2.84

*Note.*—An establishment may join one or more types of co-operative societies.

APPENDIX A

GOVERNMENT OF WEST BENGAL

State Statistical Bureau

Economic Survey of Small Industries, 1958.

Name of Industry in Block Letters.....

Section A—Details of the sample :

District.....( ) Police-station.....( ) Town.....( )

Union/Ward No..... House/Holding/J.L. No..... Village/Street.....

Family head..... Sample No.....

Name of owner of the establishment..... Relationship of the owner with

Family head.....

Section B.—Details about the resident members of the family

Serial No.	Relationship with the head.	Sex.	Age.	Civil condition.		Education.		Months of employment.			Reasons of unemployment.	
				(5)	(6)	(7)	(8)	In per-sonal occu-pation.	In family occu-pation.	With-out occu-pation.	(12)	(13)
(1)	(2)	(3)	(4)		(6)	(7)	(8)	(9)	(10)	(11)		
1	Head											
2												
3												
4												
5												
6												
7												
8												

## SECTION C—Assets and Liabilities of the establishment on the date of enquiry.

Assets. (1)	Value. (Rs.) (2)	Annual Rent. (Rs.) (3)	Liabilities (Loans) Account. (4)	Source. (5)	Amount. (Rs.) (6)	Rate of interest (per cent. per annum). (7)
(1) Land and building ..			(1) Land and buildings ..	(a) .....	.....	.....
(2) Machineries ..				(b) .....	.....	.....
(3) Tools ..				(c) .....	.....	.....
(4) Stocks of raw materials ..			(2) Machineries and tools ..	(a) .....	.....	.....
(5) Stocks of finished goods ..				(b) .....	.....	.....
(6) Stocks of semi-finished goods			(3) Raw materials ..	(a) .....	.....	.....
(7) Stocks of furniture, etc. ..				(b) .....	.....	.....
(8) Total amount due for supply of finished goods.			(4) Others ..	(a) .....	.....	.....
(9) Cash in hand and at Banks						
Total Assets ..			Total ..			
8(a) Amounts due for supply of finished goods during last year.			3(a) On account of raw mate- rials purchased last year.			
8(b) Advance made for supply of materials, lands, etc.						



## SECTION D—Expenses on Raw materials during last year.

Items consumed. (1)	Unit. (2)	Quantity consumed during the year.		Purchase value.		Period of credit (General). (8)	Source (M/CO/Mj/ DB/DX). (9)
		Purchased from local market. (3)	Purchased from outside. (4)	Total. (5)	Cash. Rs. (6)	Credit. Rs. (7)	
I. Raw materials—							
(a) Basic materials—							
(i) .. ..	..						
(ii) .. ..	..						
(iii) .. ..	..						
(iv) .. ..	..						
(v) Others ..	..						
(b) Auxiliary materials—							
(i) .. ..	..						
(ii) .. ..	..						
(iii) .. ..	..						
(iv) .. ..	..						
(v) Others ..	..						
(c) Others ..	..						
II. Annual Repairs charges ..	..						
III. Packing materials ..	..						
Total ..	..						
M = Market. CO = Co-operative. Mj = Mahajan. DB = Dadandar (Bengali). DX = Dadandar (Non-Bengali).							

**SECTION E—Production during last year.**

Serial No.	Name of products and work done.	Production.				Sale.		Agency for sale : Own Wholesale (OW), Own Retail (OR), Dadandar (DB/DX), Co-operative (C), Mahajan (Mj.)	P. C. rise or fall in demand compared to last few years.
		Unit.	Quantity.	Value. (Rs.)	Annual capacity of production under existing condition.	Quantity.	Value. (Rs.)		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
I	Finished products .. ..								
	Total ..								





## SECTION G—Details of machineries and tools as on the date of enquiry.

Name. (1)	Number. (2)	Value (Rs.) (3)	Annual rent, (Rs.) (4)	Manner of acquisition P/H/DB/ DX. (5)	Life in years.		
					Expected total. (6A)	Balance. (6B)	Remarks. (7)
(1) <b>Machineries</b>							
(i)							
(ii)							
(iii)							
(2) <b>Tools</b>							
(i)							
(ii)							
(iii)							
(iv)							

P= Purchased,

H=Hired,

D =Received from Donator

B =Bengali,

X =Non Bengali,

**I. If any help is taken from dadander—Yes/No.**

**II. If yes, nature of help taken.**

**Money against finished goods.**

**Other kind of help.....**

### III. *Details of dadan.*

[illegible]

## SECTION I—Labour account for last year ; Family Labour.

Serial No.	Relationship with owner. (2)	Age. (3)	Sex. (4)	Number of months engaged last year.				Remarks, if any. (9)
				Family industry. (5)	Other family work. ( )	Outside work. (7)	Total. (8)	
1			•					
2								
3								
4								
5								
6								
7								
8								
9								
10								

SECTION J—Labour account for last year : **Hired Labour.**

Serial No.	District of Origin.		Age.	Sex.	Number of months worked in the family during last year.	Amount received last month from owner.			Amount received last year from owner.		
						Cash.	Kind. (Rs.)	Total. (Rs.)	Cash.	Kind. (Rs.)	Total. (Rs.)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
1											
2											
3											
4											
5											
6											
*7											
Total											

Amount Paid for work done through others (Rs.).....

\*Casual labour.



## SECTION K—Consumption of fuel and lubricating material, last year.

Items consumed.		Unit.	Quantity consumed.	Purchase value. (Rs.)	Remarks.
(1)		(2)	(3)	(4)	(5)
<b>I. Fuel</b>					
(a) Coal	.. ..				
(b) Coke	.. ..				
(c) Charcoal	.. ..				
(d) Firewood	.. ..				
(e) Fuel oil	.. ..				
(f) Other fuel	.. ..				
<b>II. Electricity</b>					
<b>III. Lubricating Materials</b>					
(a) Lubricating oils	.. ..				
(b) Other lubricants	.. ..				









**SECTION 0—Occupation of the earners.**

Serial No. as in B	Occupation.		Average monthly income (except in family occupation).			No. of months employed during last year.
			Cash (4)	Kind (Value). (Rs.) (5)	Total. (Rs.) (6)	
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1						
2						
3						
4						
5						
6						
7						
8						
9						

## SECTION P—Annual Income (last year).

Source. (1)	Individual income. (Rs.) (2)	Family income. (Rs.) (3)	Total income. (Rs.) (4)
1. Net income from			
(a) Agriculture and Horticulture			
(b) Sale of milk, egg, etc.			
(c) Industry			
(d) Trade			
2. Profession			
3. Other occupation			
4. Rent received			
5. Interest received			
6. Remittances received			
7. Help			
8. Sale of assets			
(a)			
(b)			
(c)			
9. Drawing on pension and savings			
10. Loans			
11. Others			
Total			

**SECTION Q—Land owned and possessed (acres) as on the date of enquiry.**

**(a) Cultivated land—**

- (i) Total acres owned.....
- (ii) Acres let out : .....
- (iii) Khase cultivation [(i) — (ii)].....
- (iv) Let in.....
- (v) Total acres in possession [(iii) + (iv)].....

**(b) Land owned (other than cultivated)—**

- (i) Not available for cultivation : .....
- (ii) Culturable waste : .....
- (iii) Unculturable : .....
- (iv) Others : .....

**Total**



## SECTION R—Details of crops grown last year.

Names of crops. (1)	Area (Acres). (2)	Crops grown. (Mds.) (3)	Crops received.		Crops sold.		Crops consumed.	
			Quantity. (Mds.) (4)	Value. (Rs.) (5)	Quantity. (Mds.) (6)	Value. (Rs.) (7)	Quantity. (Mds.) (8)	Value. (Rs.) (9)
1. Aus paddy ..	..							
2. Aman paddy ..	..							
3. Other kinds of paddy ..	..							
4. Pulses ..	..							
5. Jute ..	..							
6. Sugarcane ..	..							
7. ..	..							
8. ..	..							
9. Others ..	..							
10. By-products ..	..	X	X	..	X	..	X	..
Total ..	..	X	X	..	X	..	X	..

## SECTION 8—Family expenditure (last year) (excluding value of crops grown and consumed)

Items.	Unit.	Last month.		Last year		Items.	Last month value. (Rs.) (4)	Last year value. (Rs.) (6)
		Quantity.	Value. (Rs.) (4)	Quantity.	Value. (Rs.) (6)			
(1)	(2)	(3)	(4)	(5)	(6)	(1)	(4)	(6)
(a) Cereals ..						(Brought forward)		
(b) Pulses ..						8. Washing materials ..		
(c) Edible oils ..						9. Footwear ..		
(d) Vegetable ghee ..						10. Bedding ..		
(e) Salt ..						11. Furniture ..		
(f) Spices ..						12. Utensils ..		
(g) Sugar and gur ..						13. Toilet goods ..		
(h) Milk ..						14. Other miscellaneous purchases.		
(i) Butter and ghee ..						15. Services ..		
(j) Other milk products ..						16. Educational ..		
(k) Potato ..						17. Medical ..		
(l) Onions ..						18. Social ..		
(m) Other non-leafy vegetables ..						19. Religious ..		
(n) Leafy vegetables ..						20. Amusements ..		
(o) Fish.. ..						21. Travelling ..		



## SECTION T—Agricultural expenses.

(1)	(2)	(1)	(2)
	Rs.		Rs.
1. Payments to labourers (cash) .. ..	..	(Brought forward) .. ..	..
2. Payments in kind (value) .. ..	..	6. Purchase of cattle food .. ..	..
3. Purchase of seeds .. ..	..	7. .. ..	..
4. Purchase of manure .. ..	..	8. .. ..	..
5. Repair of implements .. ..	..	9. Others .. ..	..
(Carried over) .. ..		Total .. ..	..

Signature of Investigator (in full)..... Unit..... Date.....

Signature of Inspecting Officer..... Date.....

## APPENDIX B

**Design of the survey:** The survey was conducted in general, in those areas or zones where there are concentrations of artisans. In a zone, which was usually a subdivision, and in some cases a district, samples were drawn as indicated below:—

- (i) Complete enumeration up to 150 establishments.
- (ii) 50 per cent. of the establishments where the total exceeded 150 with a minimum of 150 and maximum of 200.

The staff were, however, instructed to cover all the establishments, if the number was found not to exceed 150 by a large number.

**Details of the samples:** (1) In the rural areas of Sadar and Bishnupur subdivisions of Bankura district, 150 and 42 establishments of this industry were respectively listed and taken up for economic survey. Of these, however, 37 establishments, 33 in Sadar and 4 in Bishnupur subdivisions could not be surveyed due to various reasons.

No establishment of this industry was found in Sonamukhi town. In the towns of Bankura and Bishnupur, however, 13 and 98 establishments could be traced and taken up for survey. 2 units, one each in Bankura and Bishnupur towns, however, could not be surveyed.

In all, therefore, 264 establishments, 155 in rural areas and 109 in the urban areas, were surveyed in the district of Bankura.

(2) In 24-Parganas, the survey was undertaken in the two towns of Bongaon and Baduria. No establishment of this industry could be traced in Baduria. 20 establishments were, however, found in Bongaon and all of them were surveyed.

(3) In the rural areas of Sadar and Ranaghat subdivisions of Nadia district, 206 and 11 establishments of this industry were respectively listed. In Sadar subdivision, 150 units were selected at random, while all the 11 establishments of Ranaghat subdivision were taken up for economic survey. 27 establishments, 26 in Sadar and one in Ranaghat subdivision could not be surveyed due to various reasons.

Of the 3 selected towns of Santipur, Ranaghat and Nabadwip, only 9 establishments, 6 in Nabadwip, and 3 in Ranaghat could be traced. No establishment was found in Santipur town.

In all, therefore, 143 establishments, 9 in urban areas and 134 in rural areas were surveyed in the district of Nadia.

(4) 882 establishments of this industry, 547 in Sadar, 301 in Kandi, 26 in Jangipur and 8 in Lalbagh subdivisions were listed in the rural areas of the district of Murshidabad. 150 establishments from each of Sadar and Kandi subdivisions were drawn as samples for the survey. In Jangipur and Lalbagh subdivisions all the units were covered. Only 2 establishments were found in Berhampore town and these were surveyed. Of these 334 establishments in the rural areas, 20 establishments in Sadar, 2 in Jangipur and 2 in Lalbagh subdivisions, could not, however, be surveyed due to various reasons.

In all, therefore, 312 establishments, 310 in the rural areas and 2 in the urban areas were surveyed in the district of Murshidabad.

No schedule was rejected on scrutiny. The report is, therefore, based on the information available from 739 establishments in the districts of Bankura, 24-Parganas, Nadia and Murshidabad.

**APPENDIX B****A. List of raw materials consumed**

1. Conch-shell.
2. Cut conch pieces (including \*Kata sankha, \*Kuchi sankha, \*Kartani sankha, piece bangles, \*Hala, Chali sankha, \*Khile sankha and \*Rek).
- 2A. Semi-finished bangles.
3. Wire.
4. Brass scrap.
5. Lac.
6. Vermillion.
7. \*Harital.
8. Nitric acid.
9. Sulphuric acid.
10. Zinc oxide.
11. Dye.
12. Resin.
13. \*Sabeda (white lead).
14. Tin foil.
15. Spirit.
16. Coconut oil.
17. Wax.
18. Sand.
19. \*Tope.
20. \*Doke.
21. \*Falai.
22. Thread.

**B. List of finished products manufactured**

1. Shankha (conch).
2. Conch bangles of various types.
3. Ring.
4. Bracelet.
5. Locket.
6. Button.

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\*Indicates local names.

## C. List of tools and other accessories used

1. Saw (shell-cutters).	21. *Arun.
2. File.	22. *Adhari.
3. Hammer.	23. *Tekata.
4. Wedge.	24. *Malai.
5. Pincers.	25. *Binduni.
6. Tongs.	26. *Teshna.
7. Anvil.	27. *Dara.
8. Knife.	28. *Shikh.
9. Auger.	29. *Guli.
10. Axe.	30. *Torabari.
11. Chisel.	31. *Mandarbari.
12. Pliers.	32. *Majhari.
13. Probe.	33. *Sishpata.
14. Dice.	34. *Dokna.
15. Print.	35. *Adhgola.
16. Peg.	36. *Patra.
17. Hook.	37. *Ekdhara.
18. Stick.	38. Iron pan.
19. Stone slab.	39. Roller.
20. Drill.	40. *Chakti.
	41. *Kayit.

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\*Indicate local names.







